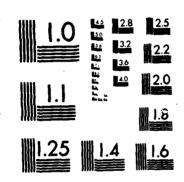
ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF PROTECTION DEVICES FOR. (U) ELECTROSPACE SYSTEMS INC ARLINGTON YA D BODSON ET AL. 31 OCT 85 NC5-TIB-85-18-VOL-3-SEC-4 DCA168-85-C-8618 F/G 28/14 NO-R164 435 1/3 UNCLASSIFIED F/G 20/14 NL Ċ





AD-A164 435

NATIONAL COMMUNICATIONS SYSTEM

VOLUME III

TEST DATA
ELECTROMAGNETIC PULSE TESTING
OF PROTECTION DEVICES

SECTION 4

LOW IMPEDANCE/LOW VOLTAGE
TEST
5 OHMS - 600 VOLTS - 120 AMPS

OTIC FILE COPY

OCTOBER 1985

This decument has been approved for public of an and sales its an activities is unitarited.



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Arlington, VA 22202-0668					
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Block 19 Continued - ABSTRACT

(136 pages) contains supporting documentation including: the test plans for the two EMP tests, descriptions/specifications of the tested transient suppression devices and the amateur radio equipment, and photographs of the test facilities and test set-ups. Volume III (1298 pages) contains the raw test data in the form of oscilloscope photographs attached to the test data sheets for both test programs, as well as, written test descriptions and bench check measurements from the equipment test program. For most purposes Volume I should provide sufficient information. Volume II would be required to obtain more detailed descriptions of the test programs and tested devices and equipment. Volume III would only be required if a separate analysis of the test data is being made.

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NES TECHNICAL INFORMATION BULLETIN 65-10

ELECTROMAGNETIC FULSE/TRANSIENT THREAT TESTING OF PROTECTION DEVICES FOR AMATEUR/MILITARY AFFILIATE RADIO SYSTEM EQUIPMENT

UCTUBER 1905

PROJUECT OFFICER

DENNIS BODSON
Senior Electronics Engineer
Office of Technology
and Standards

AFFROVED FOR PUBLICATION:

MARSHALL L. CAIN
Assistant Manager
Office of Technology
and Standards

FOREWORD

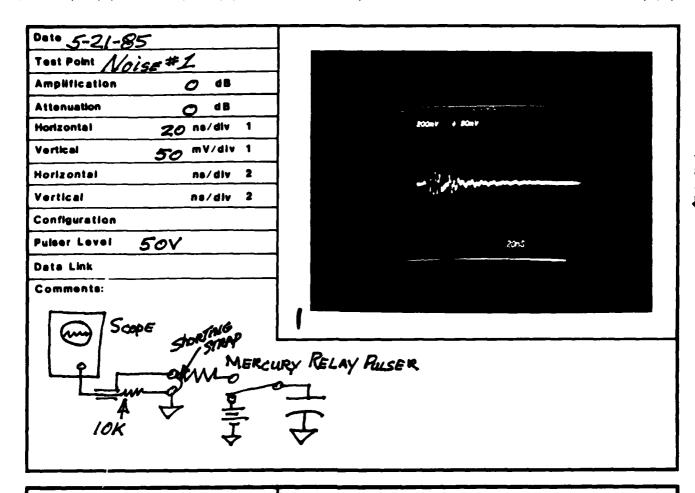
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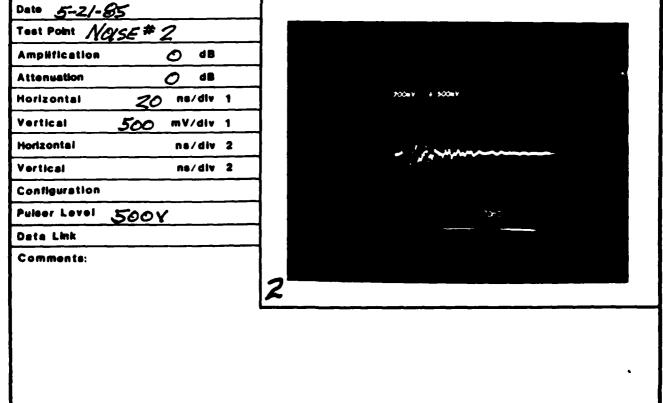
- o The exercise of their wartime and non-wartime emergency functions, and their planning and oversight responsibilities.
- o The coordination of the planning for and provision of National Security/Emergency Preparedness communications for the Federal government under all circumstances including crisis or emergency.

in support of this mission the NCS has executed a Memorandum of Understanding with the American Radio Relay League. Its purpose is to establish a broad framework for a cooperative and close working relationship with volunteer radio amateurs for support of national emergency communications functions. It is intended through joint coordination and exercise of the resources of both organizations, to enhance the nation-wide posture of telecommunications readiness for any conceivable national emergency. This particular Technical Information Bulletin is one of a series aimed at developing an awareness in the radio amateur community of practical, low cost EMF protective procedures, devices, and equipment which may if utilized significantly enhance the probability of amateur radio resources escaping serious damage during emergency situations involving EMP events.

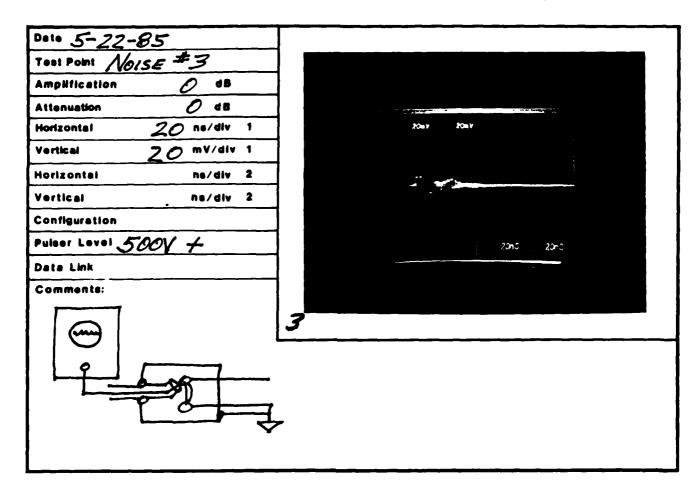
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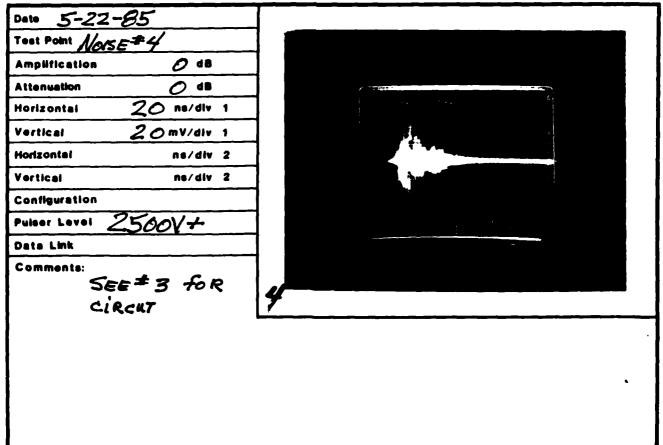
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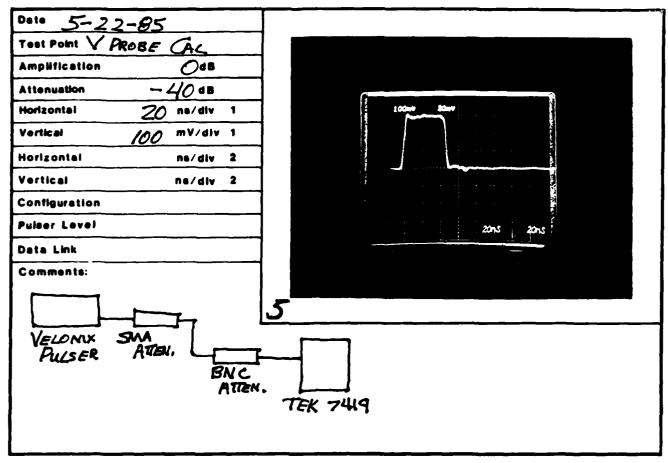


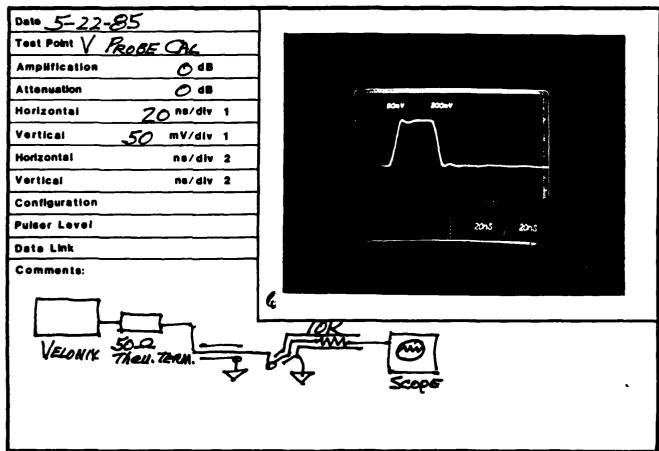


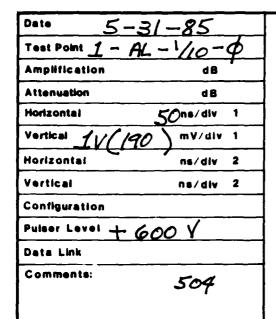
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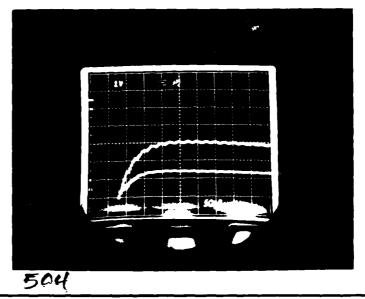




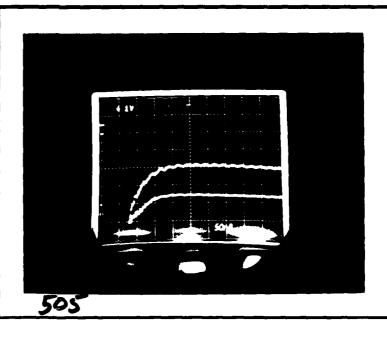


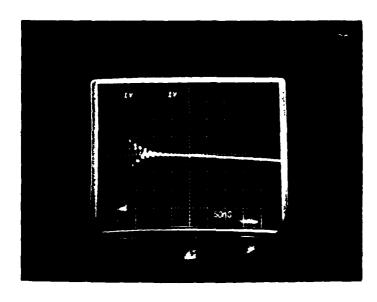






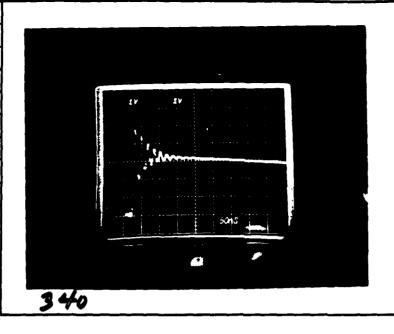
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Test Point IR - A	4-110-4
Amplification	dB
Attenuation	dB
Horizontel 5	O ne/dlv 1
Vertical IV (190)	mV/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level —6	00V
Data Link	
Comments:	505



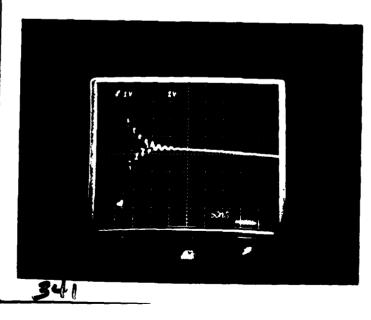


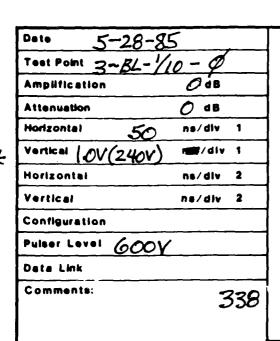
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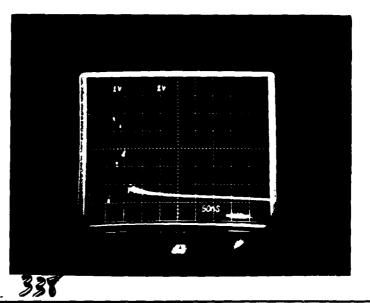
Dete Test Point Amplification O 48 Attenuation Horizontal ns/div Vertical / DV (240V mV/dlv Horizontai ns/div Vertical ns/div Configuration Pulser Level GOOV Data Link Comments: 340



Date 5-28-85
Test Point 2R-BL-1/10-6 ďB Amplification Attenuation dB Horizontal ne/dlv 1 Vertical], OV (240V) ##/div 1 Horizontal ns/div 2 Vertical ns/dlv 2 Configuration 600V Pulser Level Data Link Comments: 341

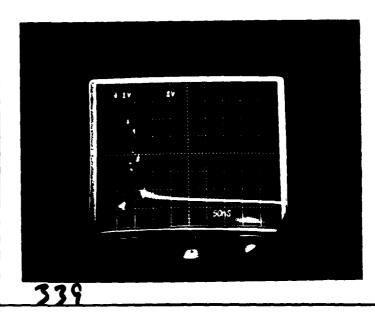






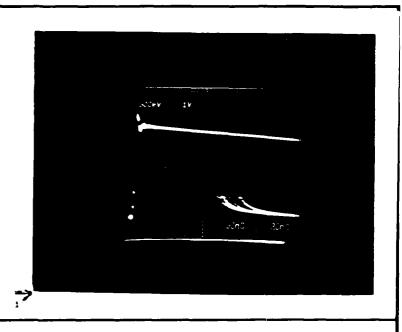
* 120 V/div (See note 70-K)

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Date 5	-28-85
Test Point 32-	BL-1/10-0
Amplification	0 46
Attenuation	O dB
Horizontal	50 ne/dlv 1
Vertical LOV	240V) - 1
Horizontal	ne/dlv 2
Vertical	ne/div 2
Configuration	
Pulser Level	600V
Date Link	
Comments:	339

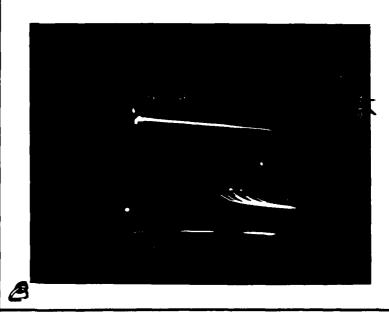


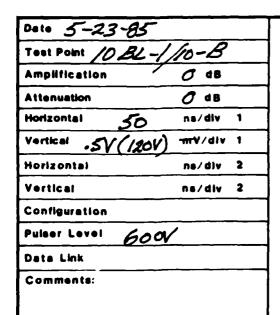
* 120 v/div

Date 5-23-85 Test Point 10-BL-L-10-A O dB **Amplification** Attenuation O dB Horizontal ns/dlv 50 Vertical .5V (120) -mV√div Horizontal ns/div Vertical ns/div Configuration Pulser Level 600V Data Link Comments: 1000 ACROSS TEST OBJECT FOR V. REF

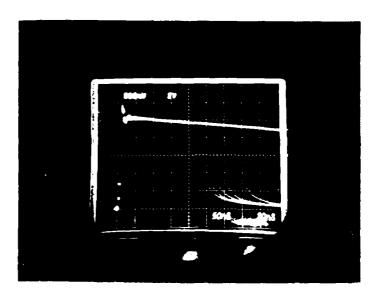


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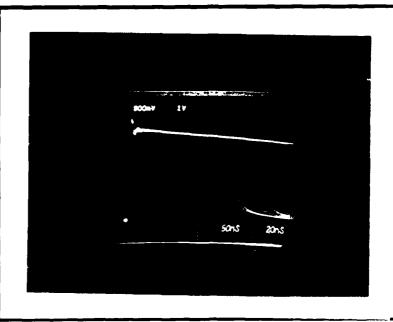


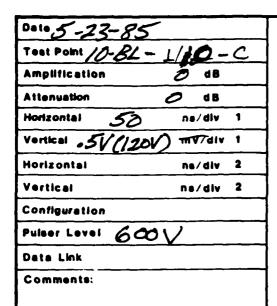


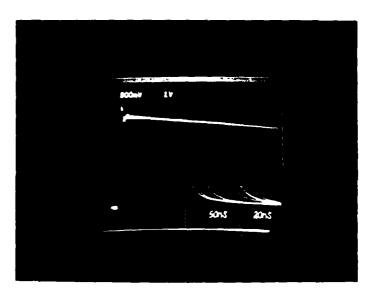
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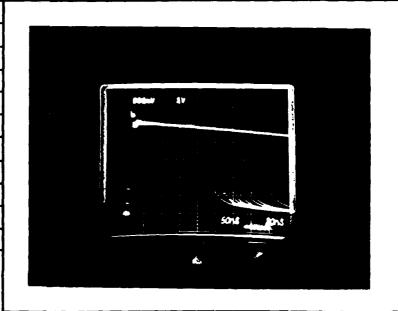
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Test Point	
Amplification	OdB
Attenuation	O dB
Horizontal 50	ns/dlv 1
Vertical .5/(/2	OU) my/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	<i>∂</i>
Data Link	
Comments:	

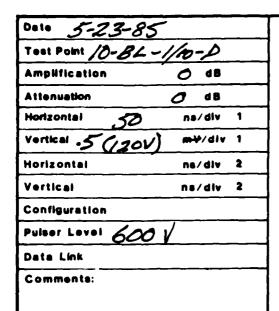


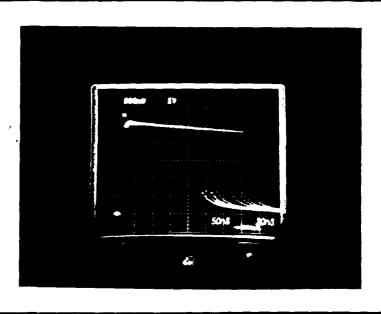




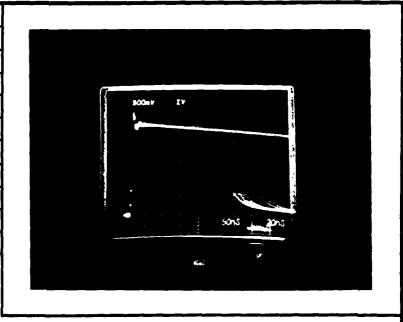
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Test Point /OR-BL	
Amplification	Ø dB
Attenuation	8 6
Horizontal 50	ne/dlv 1
Vertical . 5 (120V)	mV7dlv 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600V	/
Data Link	
Comments:	

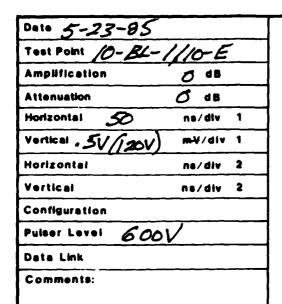


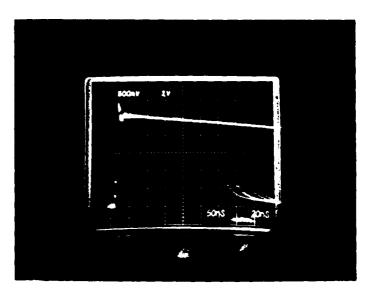




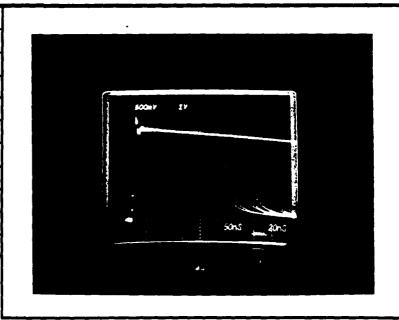
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Test Point /OR-BL-	V10-D
Amplification	Ø 48
Attenuation	O 48
Horizontal 50	ne/dlv 1
Vertical .5V(120V)	m¥/dlv 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	_
Pulser Level 600V	/
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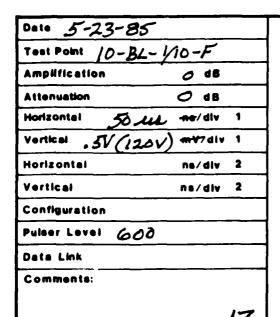


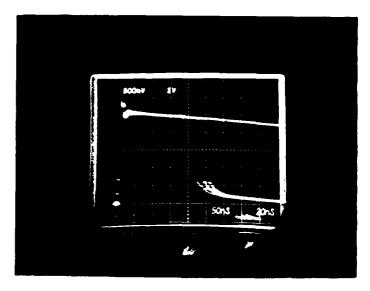




1/10-E
Ø dB
O dB
ne/div 1
mV/dlv 1
ne/div 2
ne/div 2
7

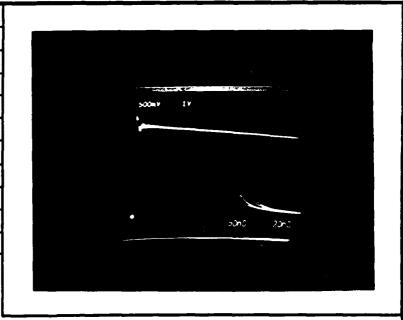


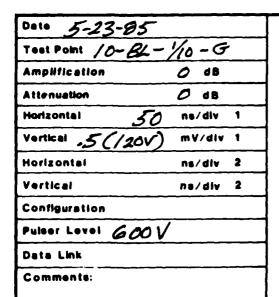


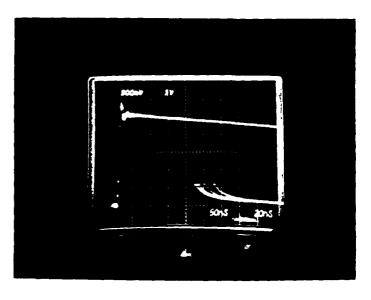


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Test Point /OR-BL	-1/10-F
AmpHication	O 48
Attenuation	O 48
Horizontal 501	ul mo/dlv 1
Vertical .5(120)	MV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	
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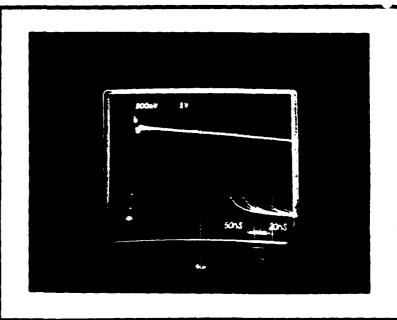
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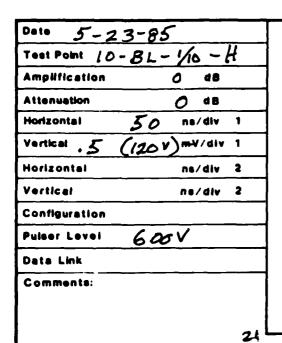


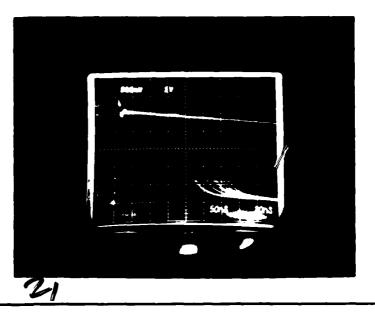




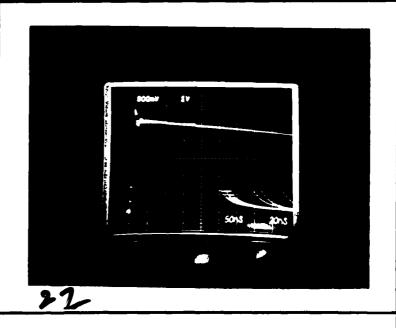
Date	
Test Point DR-B	1-1/10-G
Amplification	O 48
Attenuation	O 48
Horizontal 50	ne/dlv 1
Vertical .5V(120	W) mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	

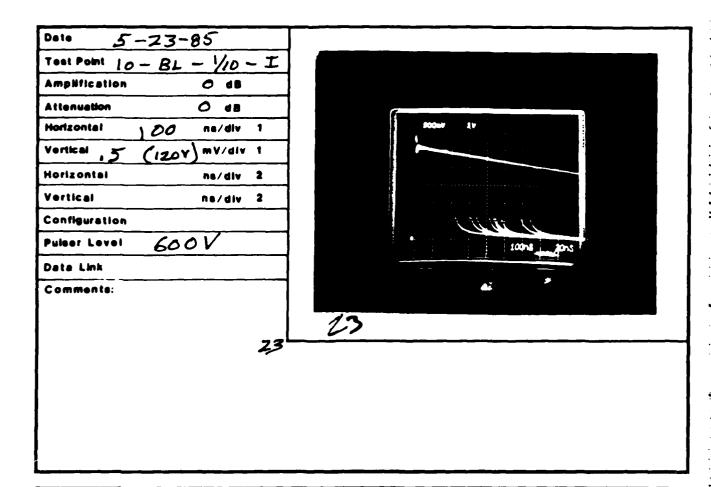


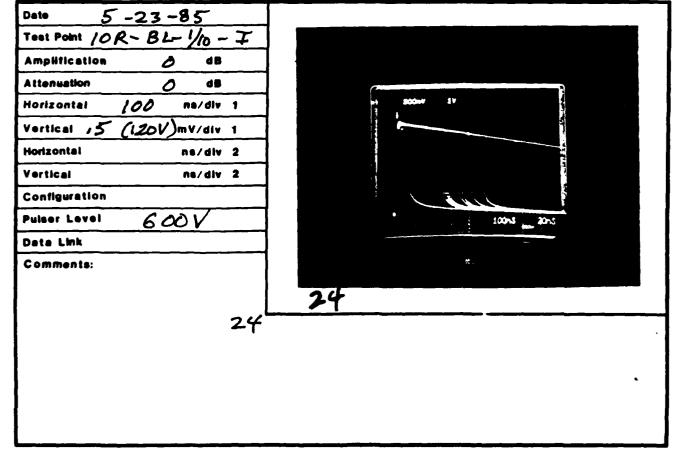


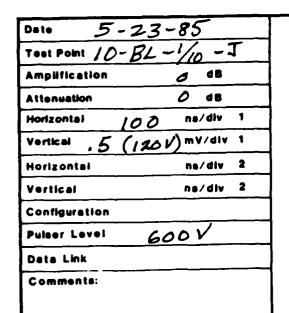


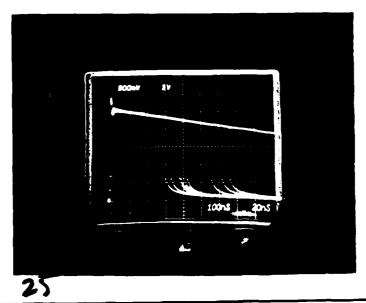
Date 5-23	-85
Test Point 10 R -	BL-/10 -H
AmpHilcation	ð dB
Attenuation	O dB
Horizontal 50	
Vertical ,5 (12	aV)mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	600 V
Data Link	
Comments:	





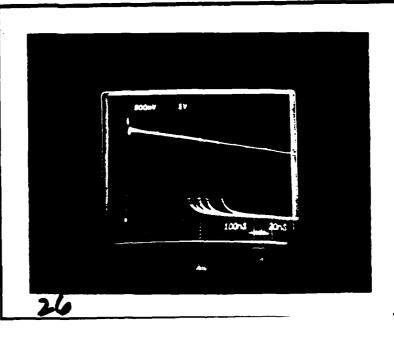






5-23-85 Date Test Point 10R-BL-10-5 dB Amplification 48 Attenuation ne/dlv 1 Horizontal 100 Vertical ,5 (120V) mV/dlv 1 ns/div 2 Horizontal ns/div 2 Vertical Configuration 600 V Pulser Level Data Link Comments:

26



Test Point 12-AL-10-6

Amplification dB

Attenuation dB

Horizontal 50 ns/div 1

Vertical 50/950 may/div 1

Horizontal ns/div 2

Vertical ns/div 2

Configuration

Pulser Level + 600 /

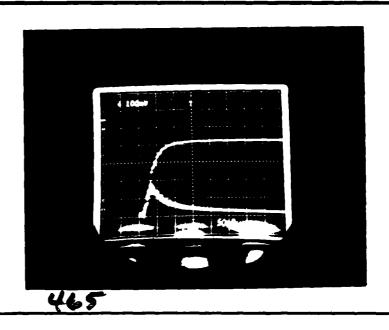
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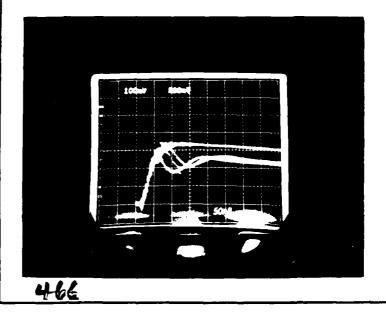
"COMMON LEAD"

Comments:

Date 5-30	-85
Test Point /2/2-	
Amplification	dB
Attenuation	dB
Horizontal	50 ne/div 1
Vertical ,/V(19	OV) my/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level -600V	
Data Link	
Comments:	465
"COMMON	LEAD

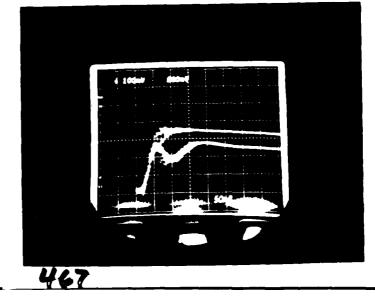


5-30-85 Test Point 12- AL-110-0 Amplification Attenuation d B Horizontal ns/div Vertical mV/div 1 Horizontal ns/div Vertical ns/div Configuration 600 V Pulser Level Data Link 466 Comments:

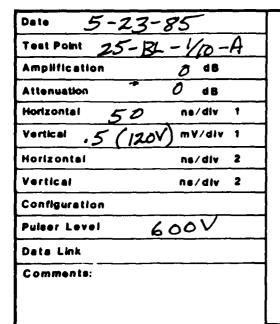


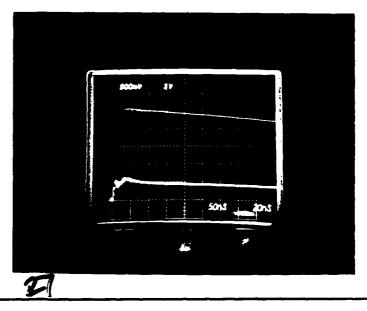
"HOT" LEAD

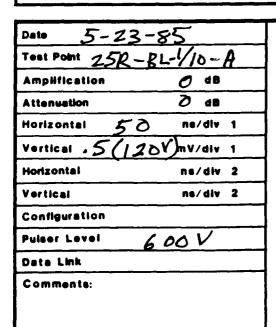
5-30-85 Date Test Point /2 R - AL-10-0 Amplification Attenuation d8 50 ne/dly 1 Horizontal Vertical , nV/dlv 1 Horizontal ns/div 2 Vertical ne/div 2 Configuration Pulser Level Data Link Comments: 467

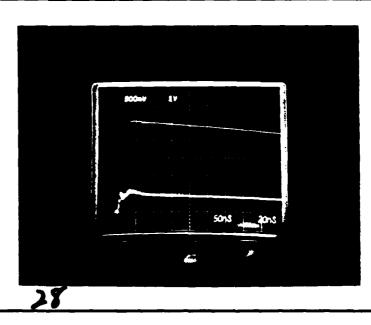


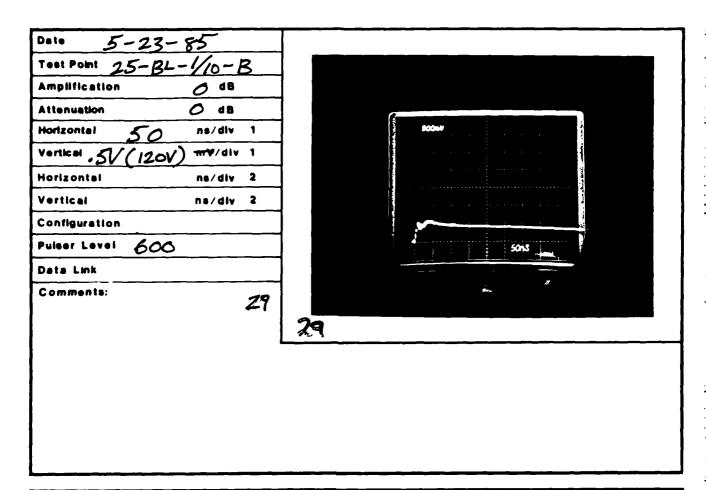
"HOT" LEAD

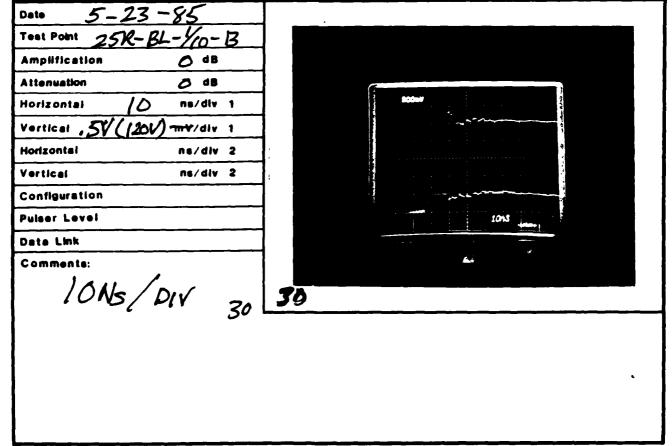


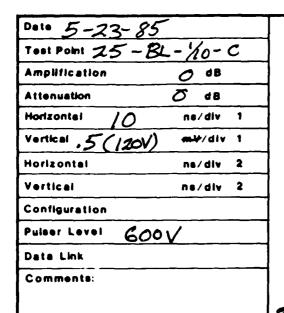


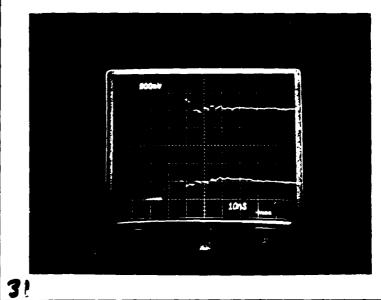




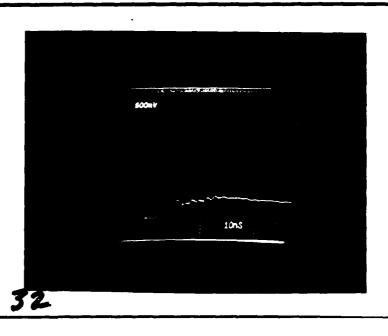


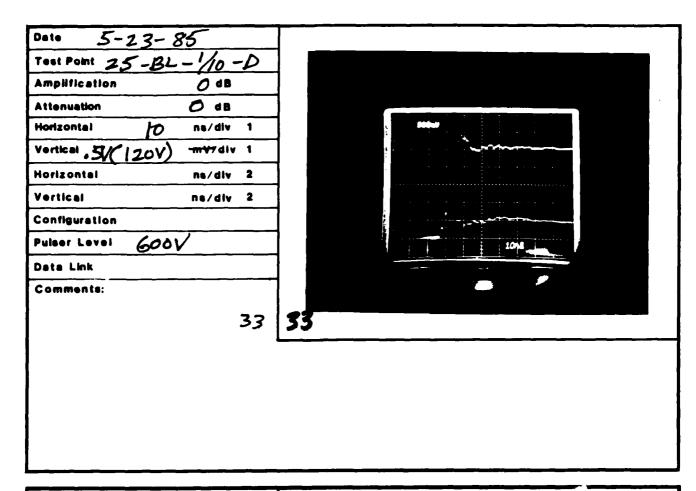


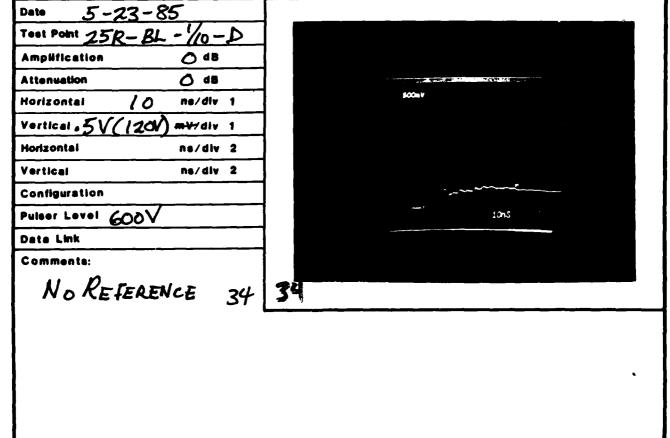


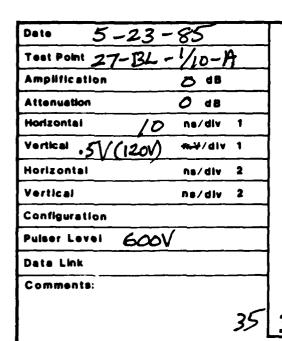


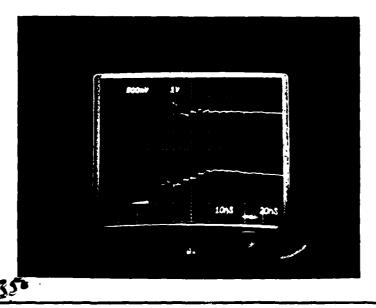
Date Test Point 25 R-BL-1/10-C Amplification 0 dB Attenuation dB Horizontal ne/dlv 0 Vertical ,5 m#/div 1 Horizontal ns/dlv 2 Vertical ns/div 2 Configuration Pulser Level Data Link Comments: NO REPERENCE 32 32



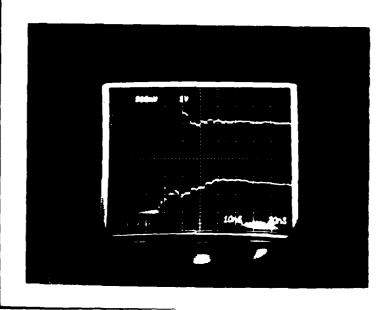




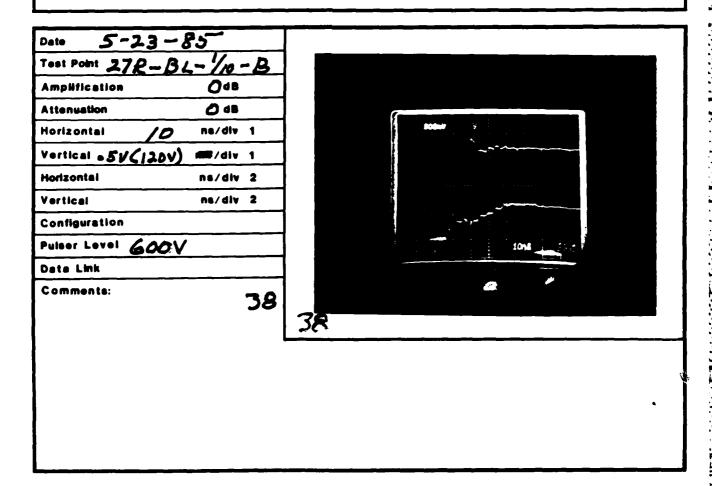




Date 5-2	3-85
Test Point 27R-	BL-1/10-A
AmpHication	0
Attenuation	0 48
Horizontal	/0 ne/dlv 1
Vertical . 5V(12	OV) myrdiv 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 6	00V
Data Link	
Comments:	34



Amplification OdB Attenuation OdB Horizontal /O ne/div 1 Vertical 5y(120v) \$V/div 1 Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level 600V Data Link Comments:	
Attenuation OdB Horizontal /Ons/div 1 Vertical SV(120V) SV/div 1 Horizontal ns/div 2 Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments:	SOOW -
Horizontal /O na/div 1 Vertical Sy (1204) #57/div 1 Horizontal na/div 2 Vertical ne/div 2 Configuration Pulser Level 6004 Data Link Comments:	300.
Vertical Sy (1204) SV/div 1 Horizontal na/div 2 Vertical na/div 2 Configuration Pulser Level 6004 Data Link Comments:	POS-W
Norizontal na/div 2 Vertical na/div 2 Configuration Pulser Level 600V Data Link Comments:	
Configuration Pulser Level 600V Data Link Comments:	
Configuration Pulser Level 600V Data Link Comments:	
Pulser Level 600V Data Link Comments:	
Dets Link Comments:	
Comments:	1018
37 37	Air Programme Control of the Control
:	

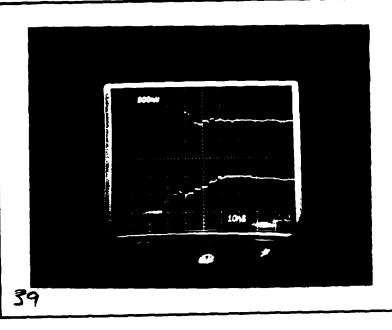


Date 5-23-8	5	
Test Point 27-BL-	1/10-0	2.
Amplification	Ø dB	
Attenuation	O 48	
Horizontal 10	ne/div	1
Vertical S(/20V)	₩V/div	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level 600Y		
Data Link		
Comments:		39

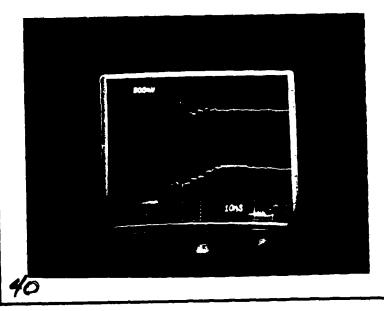
The state of the s

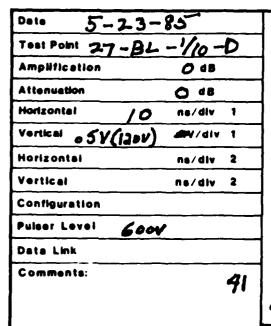
....

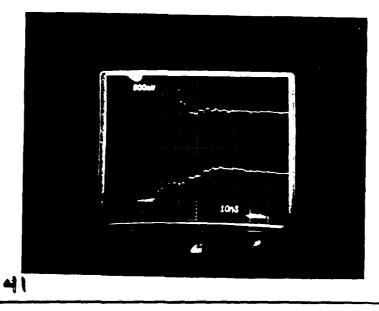
I



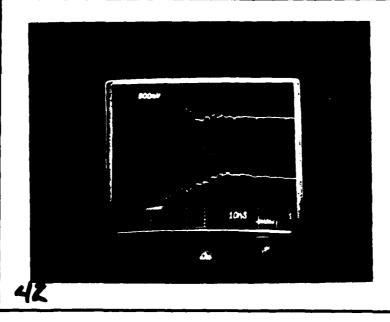
Date 5-23	-85
Test Point 272-	BL-1/0-C
AmpHilcation	048
Attenuation	0 48
Horizontal	/0 me/div 1
Vertical . 5V (/2	OV) MI/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	OV
Data Link	
Comments:	40

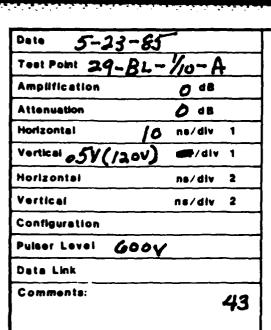


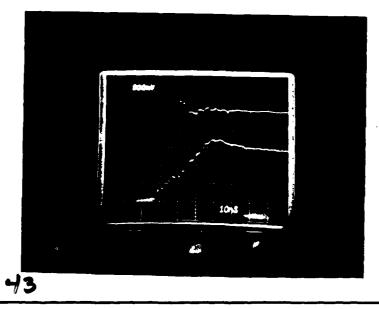




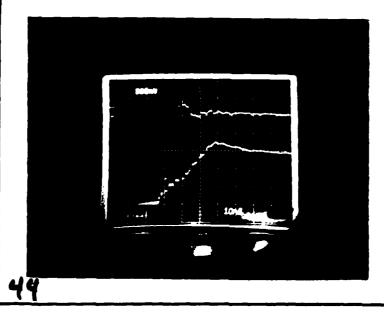
Date 5-23	- 85
	-BL-1/10-D
Amplification	D 48
Attenuation	O 48
Horizontal	10 ne/dlv 1
Vertical .5V	(268) (div 1
Horizontai	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	600Y
Dete Link	
Comments:	42

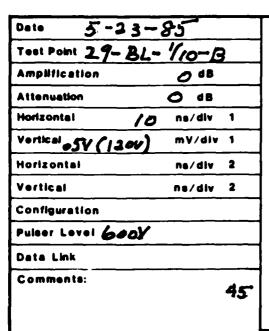


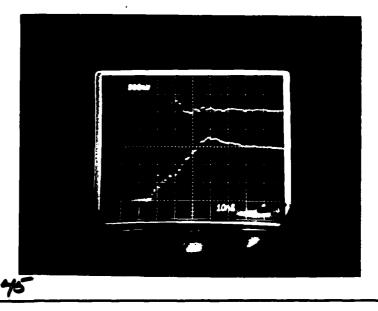


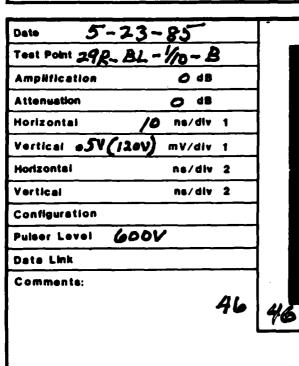


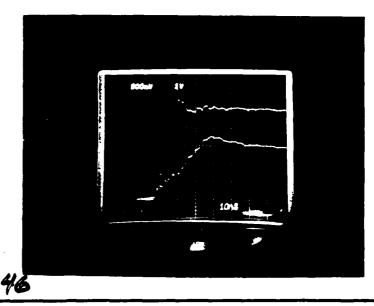
Date 5-23-8	25			
Test Point 29R-BL-1/10-A				
Amplification	O 48			
Attenuation	0 48			
Horizontal 10	ne/div	1		
Vertical .5V (120V)	mV/dlv	1		
Horizontal	ne/div	2		
Vertical	ne/dlv	2		
Configuration				
Pulser Level 6004				
Data Link				
Comments:		44		
		- •		



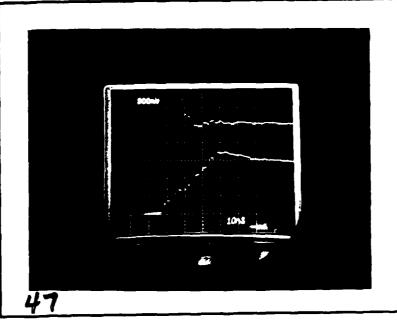


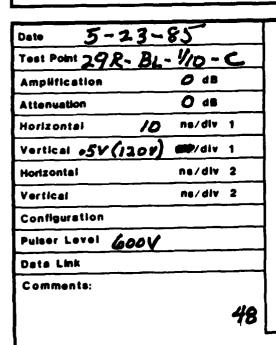


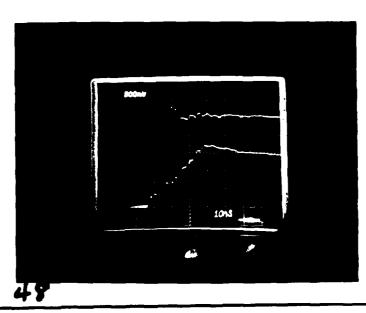




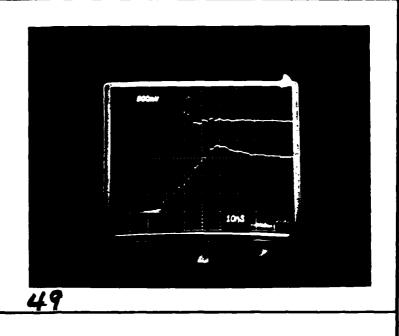
5-23-85 Dete Test Point 29- BL- 1/10-C 0 48 **AmpHfication** O dB Attenuation ne/dlv Horizontal Vertical .5Y (120V) W/div 2 Horizontal ne/div Vertical na/div 2 Configuration Pulser Level 600V Data Link Comments: 47



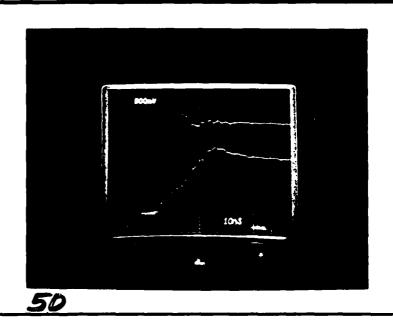




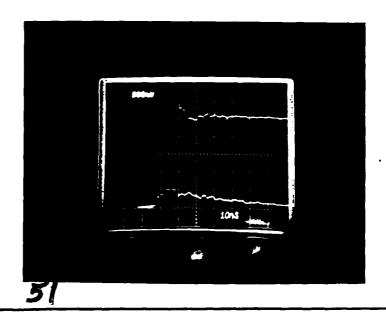
Doto 5-23-8.	5	
Test Point 29-BL-	110-D	
AmpHication	0 48	
Attenuation	0 48	
Horizontal 10	ne/div	1
Vertical .5V(120V	##/div	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:		49



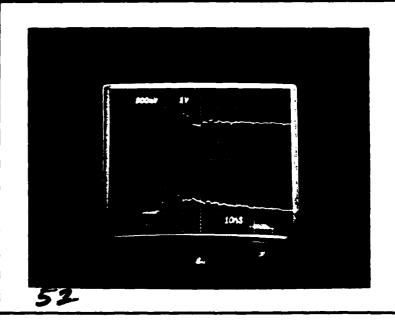
Date 5-23-9	85	
Test Point 298-BL-	1/10 -	D
AmpHilcation	O dB	
Attenuation	0 48	
Horizontal 10	ne/dlv	1
Vertical .5V (1208)	mV/dlv	1
Horizontal	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:		
		50



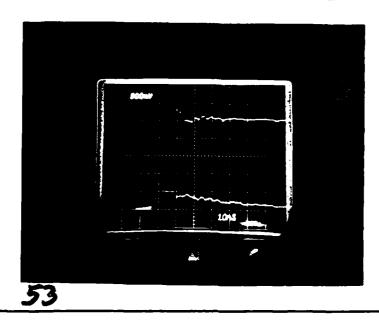
Date 5-23-8	35	
Test Point 31-8L-	110-A	-
AmpHication	0 dB	
Attenuation	O dB	
Horizontai 10	ns/div	1
Vertical -5V (120V)	/dly	1
Horizontal	ns/div	2
Vertical	ne/div	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:		



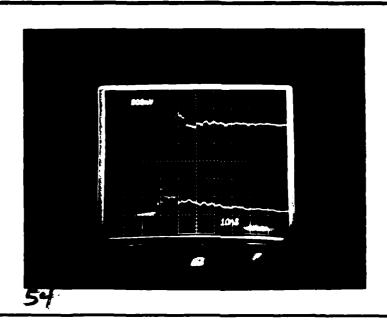
Date 5-2	3 -85
Test Point 3/2-	BL-1/10-A
AmpHication	O 48
Attenuation	O 48
Horizontal	/0 ne/dlv 1
Vertical o5V()	70V) -7/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600	7
Date Link	
Comments:	52.

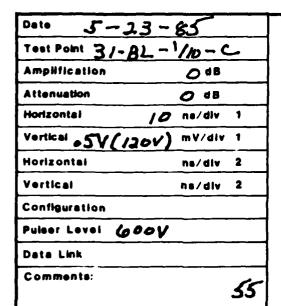


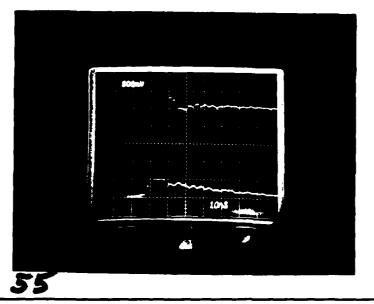
Date 5-23-	85	
Test Point 31-BL-	110-B	
Amplification	O dB	
Attenuation	Ø dB	
Horizontal /O	ne/div	1
Vertical SV (120V)	₩V/div	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level 600 V	,	
Data Link		
Comments:	3	73



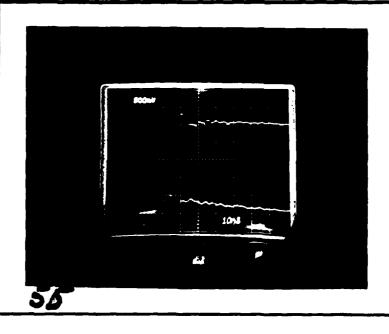
Date 5-23-8	5	,
Test Point 3/R-BL-		3
Amplification	O 48	
Attenuation	Ø 48	
Horizontal /D	ne/dlv	1
Vertical SV (1204)	mV/dIv	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level GOOV		
Date Link		
Comments:	•	54

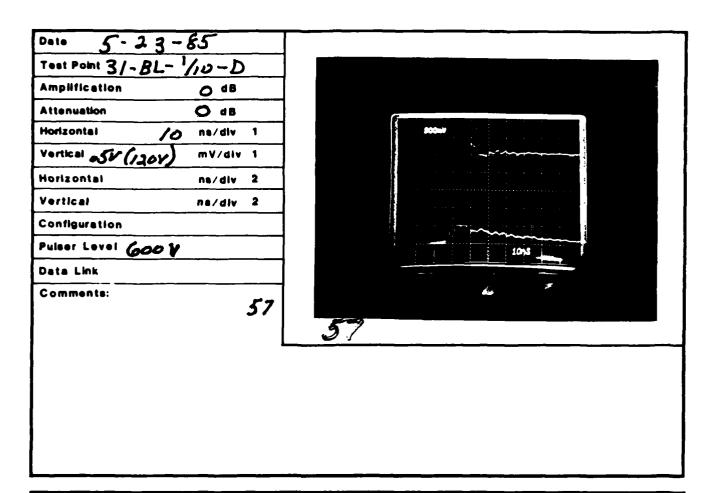


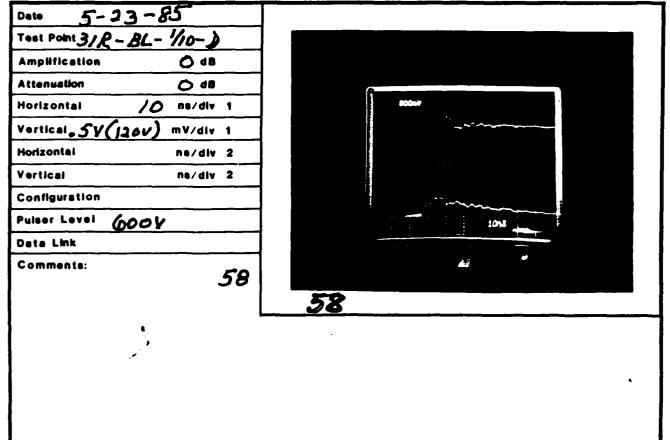


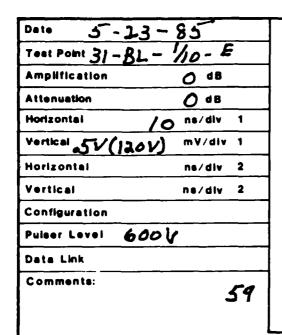


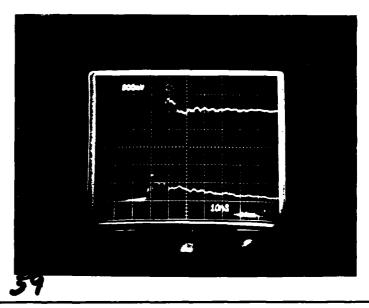
	- 23 - 85	
Test Point 3	1R-BL-1/10	٦
Amplification	OdB	
Attenuation	O 48	
Horizontal	/O ne/div	1
Vertical .5V	(1204) mV/div	1
Horizontal	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level	600 Y	
Date Link		
Comments:		56



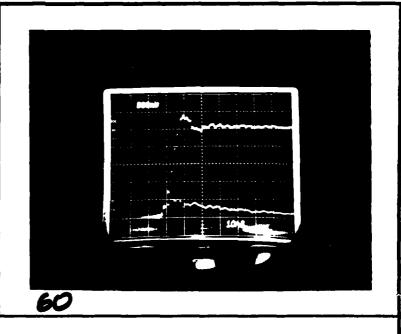


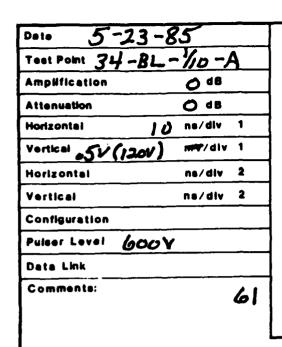


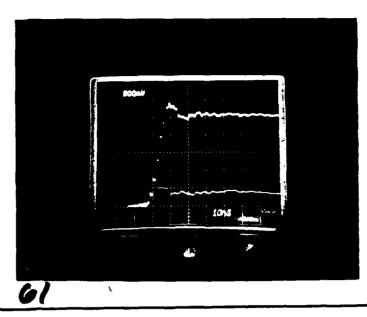




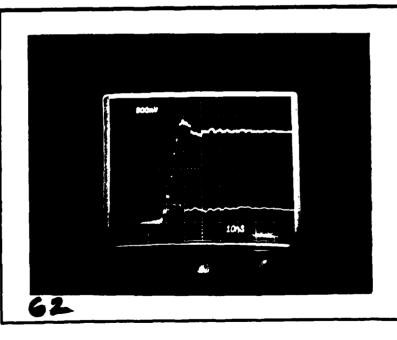
Date 5-3	3-85
	BL-1/10-E
Amplification	<i>O</i> 48
Attenuation	<i>O</i> 48
Horizontal	/O ma/div 1
Vertical 05V()	20V) mV/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	00 V
Data Link	
Comments:	60





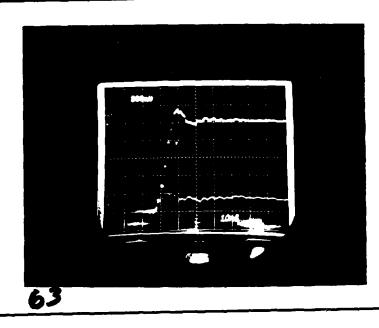


Date 5-23	3-85
Test Point 348 4	BL-110-A
Amplification	O dB
Attenuation	Ø 48
Horizontal	10 ns/dlv 1
Vertical 54 (126	/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	OV
Date Link	
Comments:	62



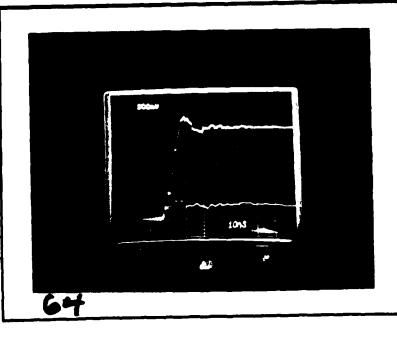
Date 5-3	3-85	
Test Point 34-		3
Amplification	O 48	
Attenuation	O 6B	
Horizontal	10 ne/div	1
Vertical, 5V(12	OV) W/div	1
Horizontal	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level 66	OOV	
Data Link		
Comments:		63

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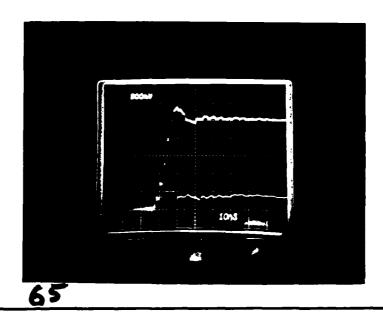
SONT RECENT PROPERTY OF STATE OF STATE

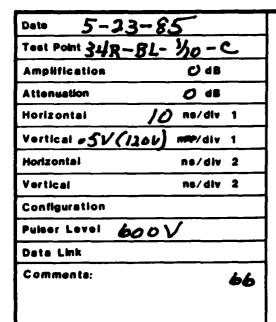
Date 5-23	-85
Tool Point 3 4R-B	IL- 40-B
Amplification	0 48
Attenuation	048
Horizontai /	O ne/div 1
Vertical 5V (126)	// /dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Date Link	
Comments:	64

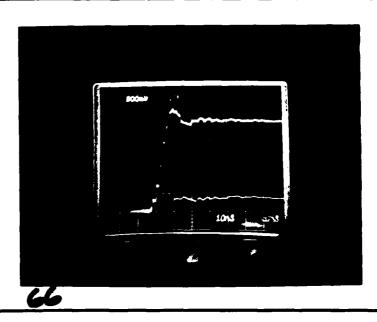


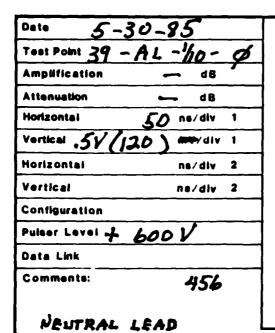
Test Point 3H-BL-1/10 - C AmpHication 0 dB Attenuation 0 dB Horizontal 10 ns/div 1 Vertical 5V(13DV) mV/div 1 Horizontal ns/div 2 Vertical ns/div 2 Configuration Pulser Level 600 V Data Link	0010 5-23-	85
Attenuation Ød8 Horizontal /Øns/div 1 Vertical .5V(/2DV) mV/div 1 Horizontal ns/div 2 Vertical ns/div 2 Configuration Pulser Level @OOV Data Link		
Horizontal // ne/div 1 Vertical .5V(/2DV) mV/div 1 Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level 600 V Data Link	AmpHication	0 48
Vertical 5V(12DV) mV/div 1 Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level 600 V Data Link	Attenuation	Ø 48
Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level 600 V Data Link	Horizontal /	Ø ns/div 1
Horizontal ne/div 2 Vertical ne/div 2 Configuration Pulser Level 600 V Data Link	Vertical .5V(120V	mV/div 1
Configuration Pulser Level 600 V Data Link		
Pulser Level 600 V Data Link	Vertical	ns/div 2
Deta Link	Configuration	***
	Pulser Level 600	V
Comments:	Data Link	
	Comments:	

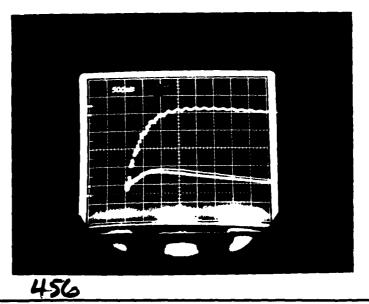
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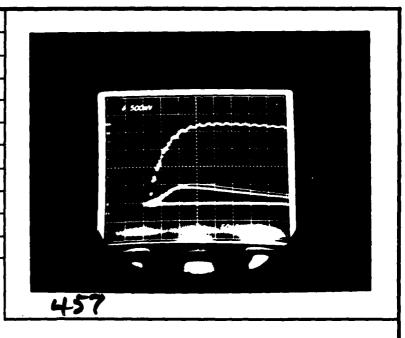








Date 5-	30-85
Test Point 398-	AL-1/10-\$
Amplification	dB
Attenuation	→ d8
Horizontal	30 ne/dlv 1
Vertical .5V(126) - div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	- 600V
Data Link	
Comments:	457
NEUTRAL	LEAD

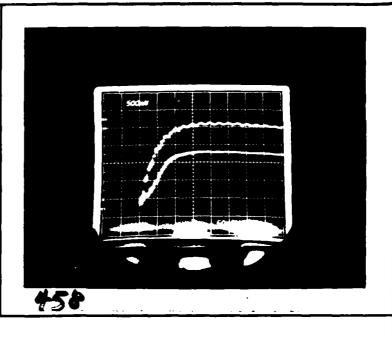


Date 5-30-8	5
Test Point 39-AL- 1/2	
Amplification	dB
Attenuation	d B
Horizontal 50	na/div 1
Vertical, 5V (126)	mV/dlv 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level + 600	νV
Data Link	
Comments:	458
POSITIVE LEAD	TesT

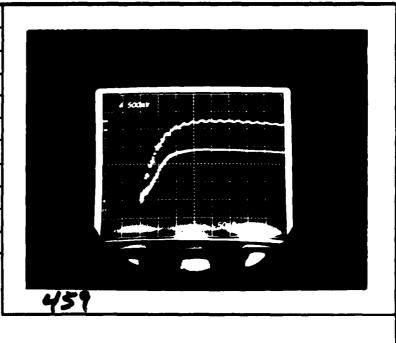
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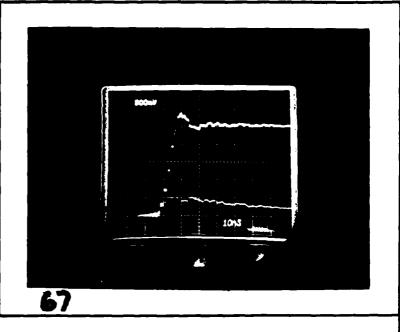
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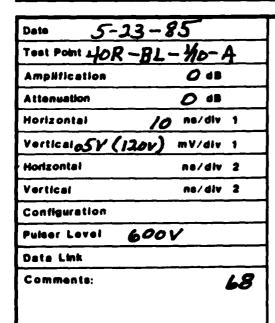


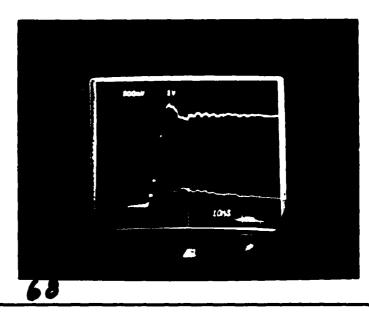
Date 3-30-	85
Test Point 39R- Al	-710-d
Amplification	dB
Attenuation	dB
Horizontal 3	D ne/div 1
Vertical 37 (120)	mV/dlv 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level - 60	υY
Data Link	
Comments:	459
Positive LEAI	דצשר (



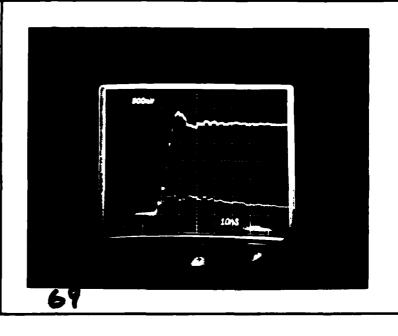
Date 5-23-8	5	
Test Point 40-BL-	110-F	}
AmpHication	0 48	
Attenuation	0 48	
Horizontal 10	ns/dlv	1
Vertical o5V (120V)	##/div	1
Horizontal	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level 600V	,	
Data Link		
Comments:		67

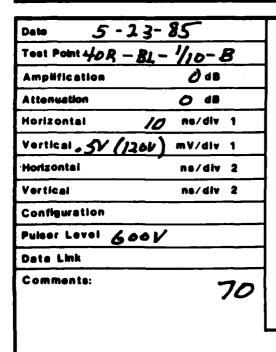


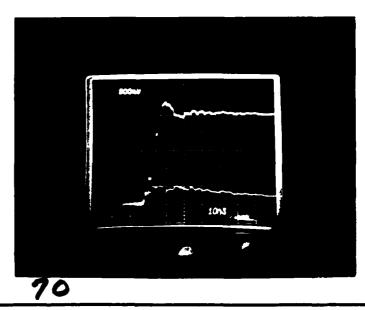




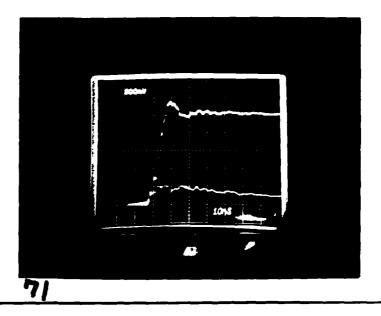
Date 5-23-	
Test Point 40-BL-	1/10 - B
Amplification	Ø 48
Attenuation	0 48
Horizontal //	y ns/div 1
Vertical -5V (126V)	mV/dlv 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600 Y	
Data Link	
Comments:	49



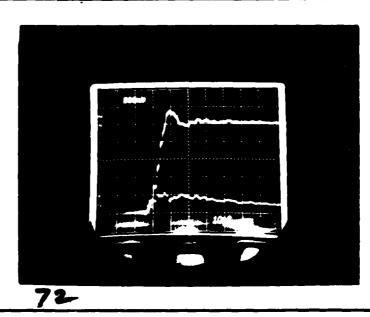




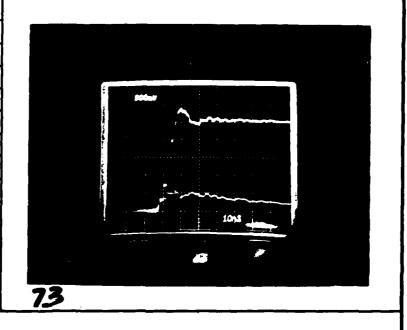
Date 5-13-	85
Test Point 40 -BL	- 1/10-C
Amplification	O dB
Attenuation	O dB
Horizontal 10	ne/div 1
Vertical o5V (126V)	mV/dlv 1
Horizontal	ns/dlv 2
Vertical	ne/div 2
Configuration	
Pulser Level 6004	/
Data Link	
Comments:	71



Date 5-23-	85	
Test Point HOR -BL - 1/10 - C		
AmpHication	0 48	
Attenuation	0 48	
Horizontal /	/ ne/dlv	1
Vertical o5V (120V)	mV/dlv	1
· Horizontal	ns/dlv	2
Vertical	ns/div	2
Configuration		
Pulser Level 6000	/	
Data Link		
Comments:		72



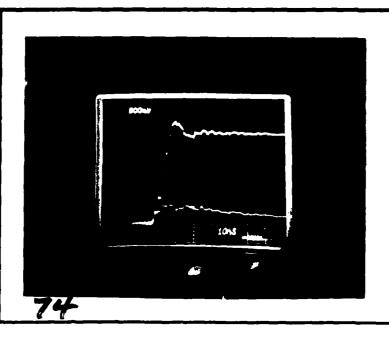
Dele 5 -2	23 -85
Test Point 40 -	BL-1/10-D
Amplification	048
Attenuation	0 48
Horizontal	10 ne/div 1
Vertical .5V(1	202) ##/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	600 V
Data Link	
Comments:	7.3



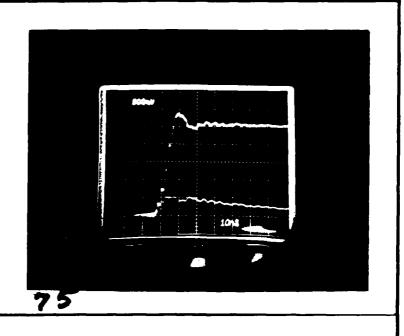
Date 5-23	-85
Test Point 40R -	BL-1/10-D
AmpHilcation	0 48
Attenuation	Ø 48
Horizontal	10 ns/dlv 1
Vertical . 5V(120	/) 67 /div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 60	OV
Data Link	
Comments:	74

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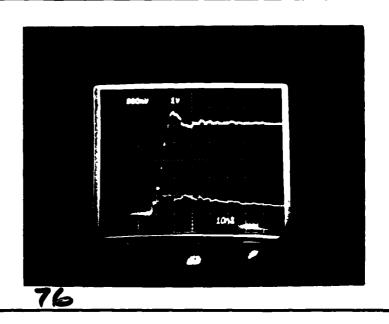
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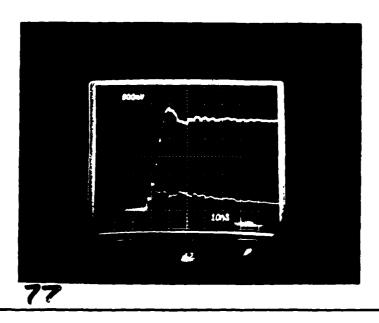
Date 5-23-8	35	
Test Point 40-BL-	1/10	-E
Amplification	048	
Attenuation	0 dB	
Horizontal 10	ne/div	1
Vertical .5V(126V)		1
Horizontel	ns/div	2
Vertical	ns/div	2
Configuration		
Pulser Level 600Y		
Data Link		
Comments:		75

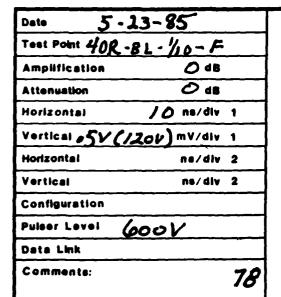


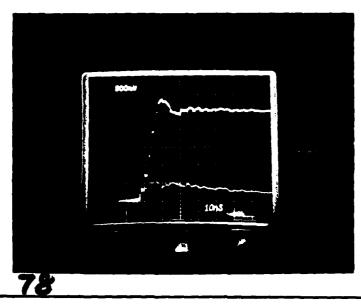
Date 5-23.	-85	
Test Point HOR-BL-1/10-E		
AmpHication	O dB	
Attenuation	0 dB	
Horizontal 10	ne/dlv 1	
Vertical .57/1264)	mV/div 1	
Horizontal	ne/div :	2
Vertical	ns/div i	
Configuration		
Pulser Level 600	V	
Data Link		
Comments:		
		16



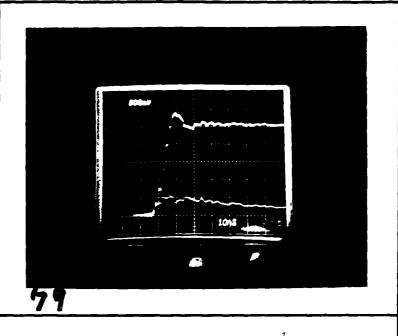
5-23-85 Dete Test Point 40-BL- 110-F Amplification Attenuetion 0 dB Horizontal ns/dlv 10 Vertical . 5 (12 0V) mV/dlv 1 Horizontai ne/div 2 Vertical ns/dlv Configuration 600V Pulser Level Data Link Comments:

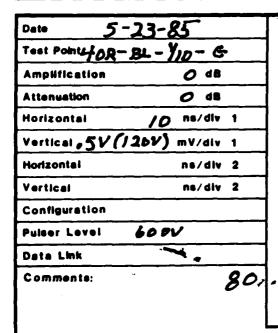


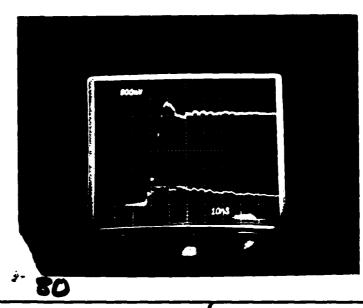




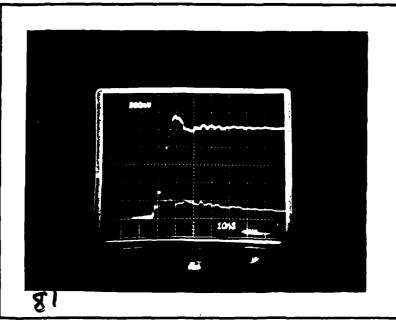
Dele 5-23-	85	
Test Point 40-BL-	1/10-6	
Amplification	0 48	
Attenuation	O 48	
Horizontal /	O ne/div	1
Vertical SY (12 UV)	mV/div	1
Horizontal	ne/dlv	2
Vertical	ns/div	2
Configuration		
Pulser Level 600	V	
Data Link		
Comments:		79

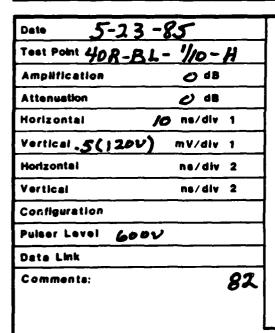


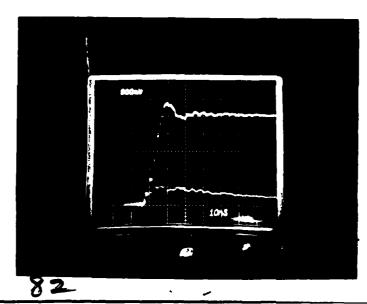




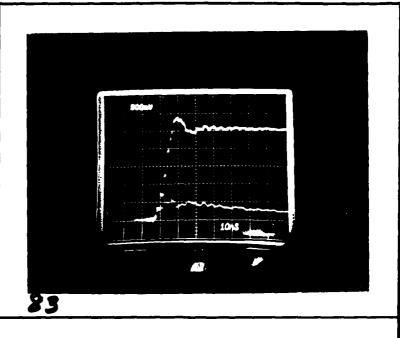
Date 5-23-85
Test Point 40-BL-1/10-# Amplification OdB 0 dB Attenuation Horizontal ne/dlv 10 Vertical .5v(12cV) mV/dlv 1 Horizontai ne/dly 2 Vertical ns/div 2 Configuration Pulser Level 600Y Data Link Comments: 81



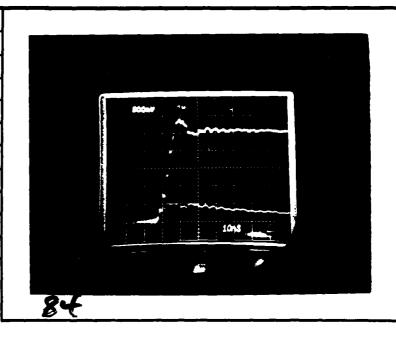




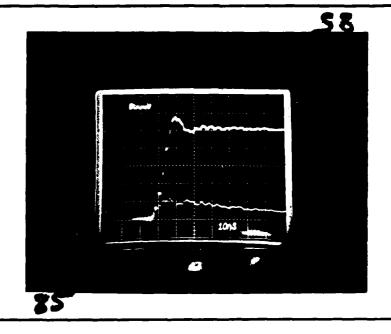
Date 3-23-85
Test Point 40-BL- 1/0- I O dB **Amplification** O dB Attenuation 10 ns/div Horizontal Vertical 5v (120V) mV/dlv Horizontal ns/dlv 2 Vertical ns/div 2 Configuration 600 V Pulser Level Data Link Comments: 83

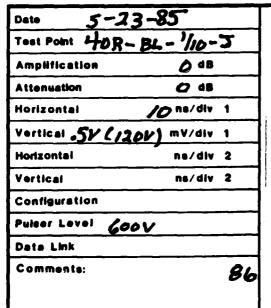


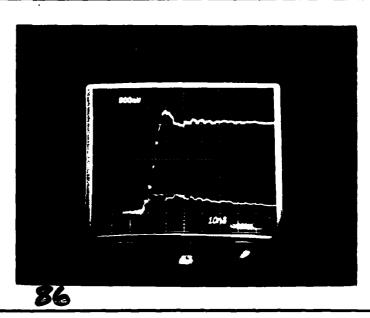
Date 3-23	-85
Test Point 408 -B	
Amplification	Ø dB
Attenuation	D dB
Horizontal	10 ne/dlv 1
Vertical .5V (120	w) mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 60	ov
Data Link	
Comments:	24
	•



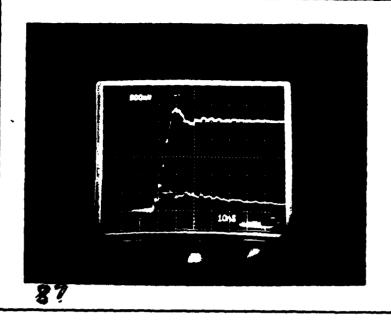
Date 5-23-8	35	
Test Point 40-BL-	1/10 - 3	<u>r</u>
Amplification	Ø 48	
Attenuetion	0 48	
Horizontal /0	ns/div	1
Vertical .5 V (126V)	mV/dlv	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:		85

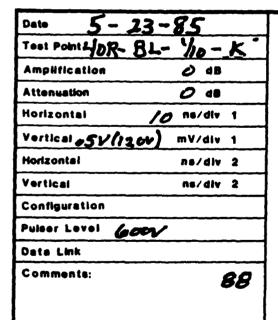


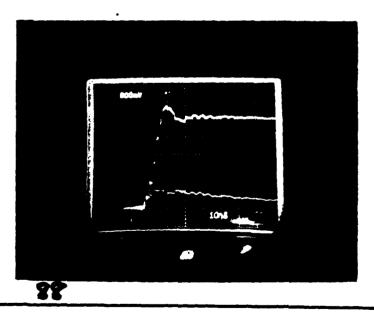




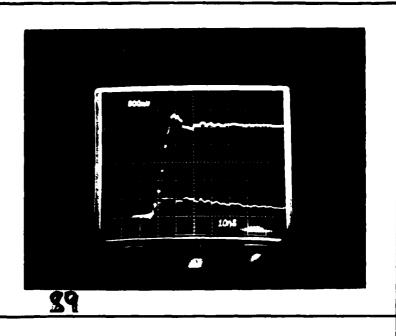
Date Test Point 40-84- 10-K AmpHilcation OdB Attenuation Ø 48 Horizontal 10 ne/div Vertical mV/div 1 Horizontal ns/dly Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments: 87



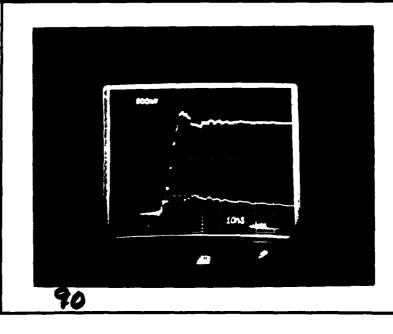




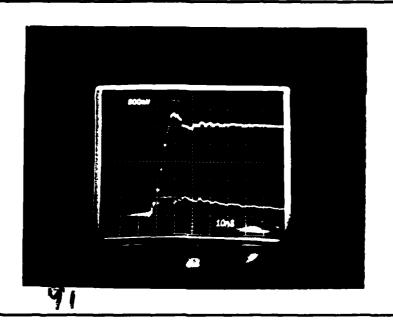
Dele 5-23-85		
Test Point 40-BL-	110-	1
Amplification	Ø 48	
Attenuation	O dB	
Horizontal 16	ns/div	1
Vertical .5 V (120V)	mV/dlv	1
Horizontal	ne/div	2
Vertical	ns/dlv	2
Configuration		-
Pulser Level 600V		
Data Link		
Comments:		89



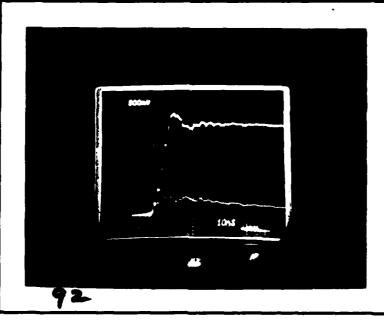
Date	
Test Point 408	-BL-1/10-L
Amplification	OdB
Attenuation	O 48
Horizontal	10 ne/dlv 1
Vertical .5V (201) mV/dlv 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	600V
Dete Link	
Comments:	90



Dete 5-23	-85
Test Point 40-8	1/10 - M
Amplification	0 48
Attenuation	O 48
Horizontal	10 ne/dlv 1
Vertical .5V(120V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	·V
Data Link	
Comments:	91



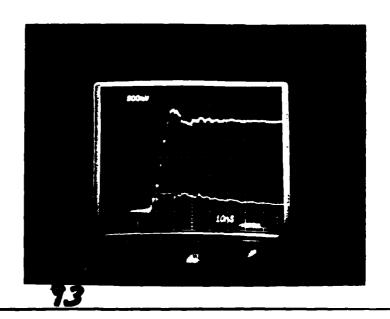
Date 5-2	3-85
Test Point 40R	-BL-1/0 - M
Amplification	Ø 48
Attenuation	Ø d8
Horizontal	/0 ns/dlv 1
Vertical .5V(/	20V) mV/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	00 V
Data Link	
Comments:	92



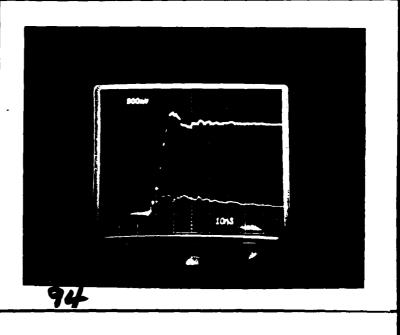
Date 5-23	3-85
Test Point 40 - 8	L-1/10-N
Amplification	0 48
Attenuation	O 48
Horizontal	/O ne/div 1
Vertical -5VC/2	OV) mV/div 1
Horizontal	ns/div 2
Vertical	ne/dlv 2
Configuration	
Pulsor Level 6	001
Data Link	
Comments:	93

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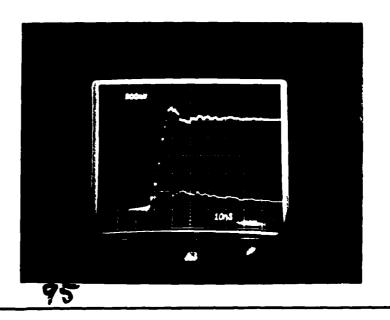
I

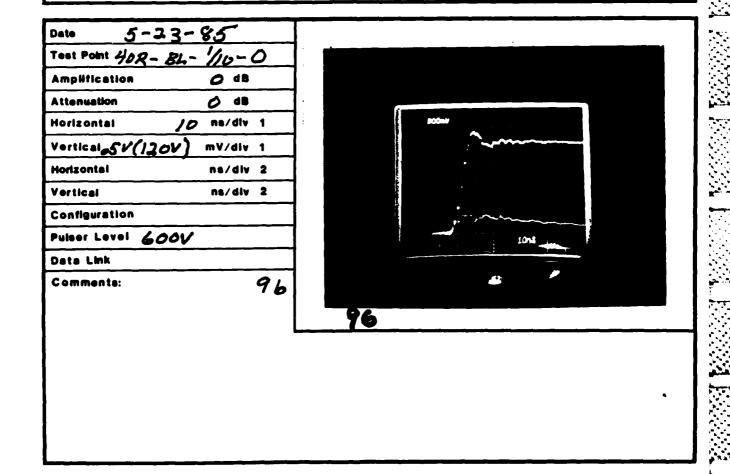


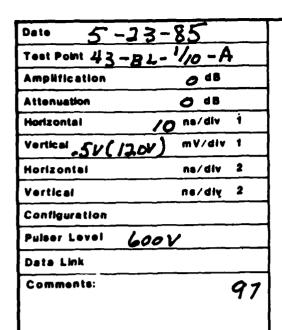
0 - N 0 dB 0 dB
) dB
<u> </u>
a/dlv 1
V/dlv 1
e/dlv 2
e/div 2
94

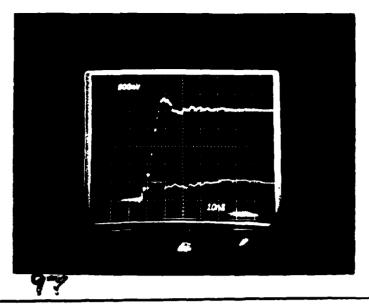


Date 5-23-	85	
Test Point 40-81-	110-0)
Amplification	Ø 48	
Attenuation	0 dB	
Horizontal /	o ne/div	1
Vertical .5 (126V)	mV/dlv	1
Horizontal	ne/dlv	2
Vertical	ne/div	2
Configuration		
Pulser Level 600V	/	
Data Link		
Comments:		95

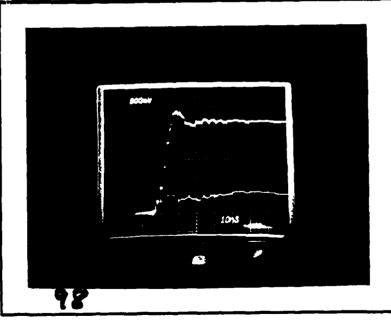




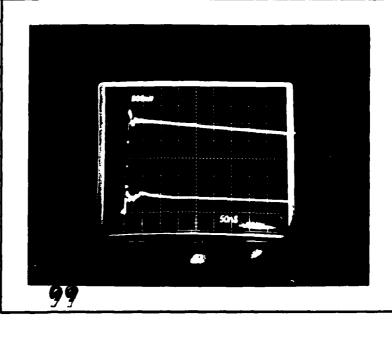




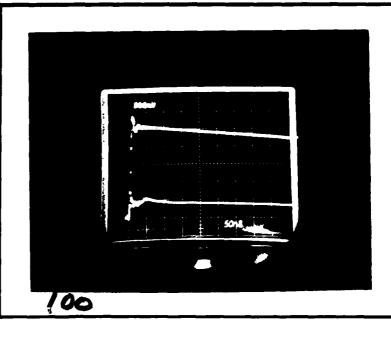
Date 5-2	3 - 85
Test Point 43R-	BL- 1/10-A
Amplification	0 48
Attenuation	ව 48
Horizontai	/0 ne/dlv 1
Vertical .5V(12	OV) mV/dlv 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 600	OV
Data Link	
Comments:	98



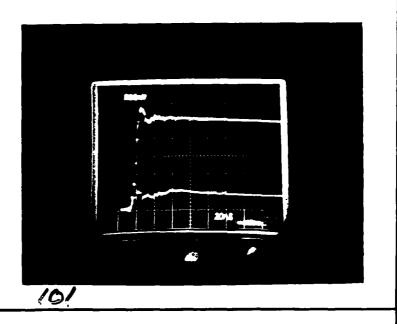
Dele 5-23-	85
Test Point 43-BL-	
Amplification	OdB
Attenuation	⊘ dB
Horizontal 3	O ne/div 1
Vertical , 5V (120V) mV/dlv 1
Horizontal	ns/div 2
Vertical	ns/dly 2
Configuration	
Pulser Level 60	00
Data Link	
Comments:	99
50NS/DIL	, 77



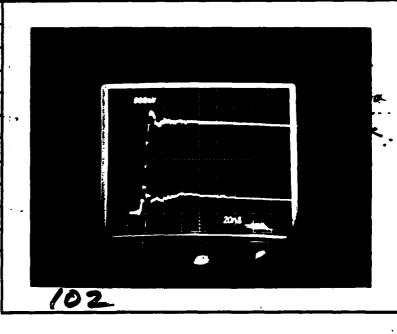
Date 5-23-	
Test Point 43R - B	L- 110-B
AmpHileation	dB
Attenuation	48
Horizontal 50	ne/dlv 1
Vertical .5V (120	W mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	20 V
Data Link	
Comments:	100



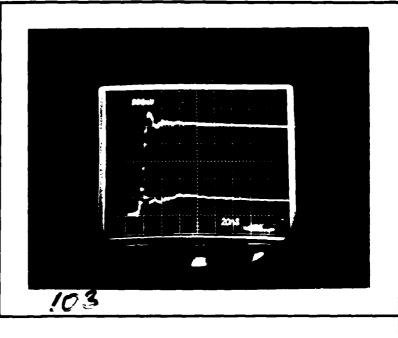
Date 5-23-	85	
Teel Point 43-84-		<u>_</u>
Amplification	Q 48	
Attenuation	O dB	
Horizontal 20	-ns/dlv	1
Vertical 05V (120V	mV/div	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level GOOV		
Data Link		
Comments:		101
20 NS/CM		1



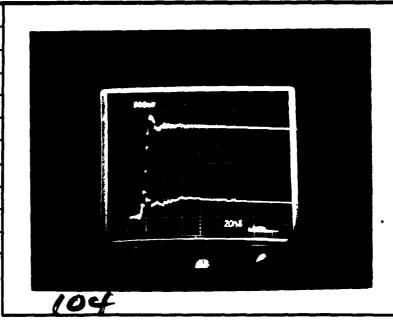
Date 5-23.	- 85
Test Point 43P - B	
Amplification	OdB
Attenuation	Ø 48
Horizontal 3	O ne/dlv 1
Vertical , 5 V (120	アン) mV/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	102
	• •

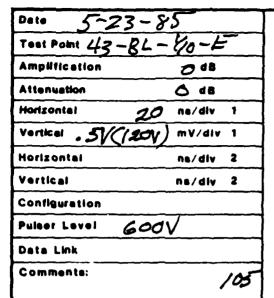


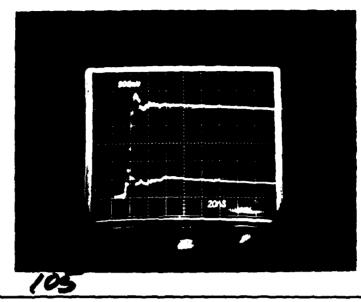
5-23-85 Date Test Point 43 -BL- 1/6 - D O 48 Amplification 0 dB Attenuation ns/div Horizontal Vertical 57 (1200) mV/dlv 1 Horizontal ns/div Vertical ns/dlv Configuration Pulser Level GOOV Data Link Comments: 103



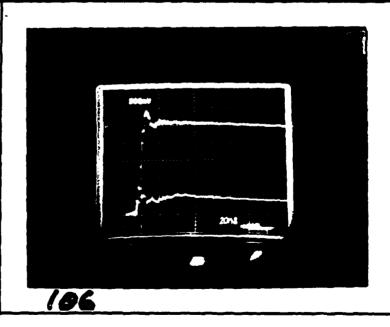
Date 5-23	-85
Test Point 438-	
Amplification	O dB
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical .57 (120	של) mV/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 60	OV
Data Link	
Comments:	104
	- •



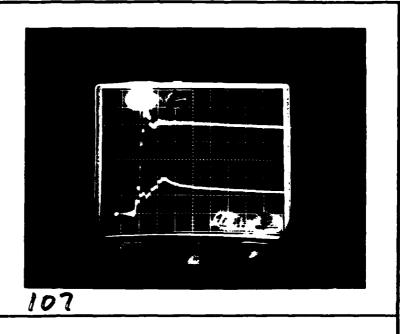




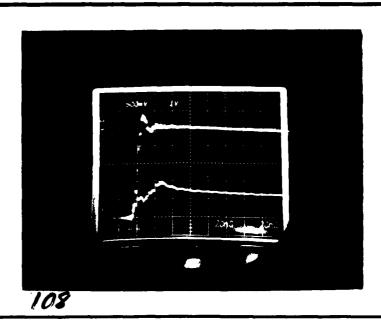
Date 5-23- Test Point 4/32-BL Amplification Attenuation Horizontal Vertical	-10- O dB O dB ns/dlv	
Amplification Attenuation Horizontal	O dB O dB ne/dlv	
Horizontal	ne/dlv	1
		1
Vertical		
	mV/div	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level		
Data Link		
Comments:		106



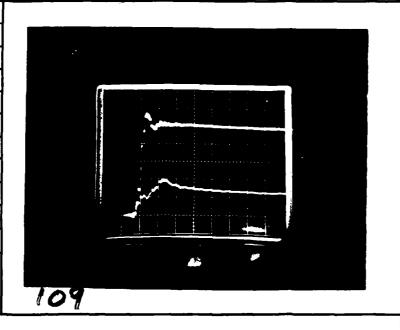
Date 5-24-85 Test Point 46-8L-1/10-A O d8 Amplification O dB Attenuation 20 ne/div Horizontal Vertical ,5V(120V mV/div 1 Horizontal ns/div Vertical 2 ns/div Configuration Pulser Level 600V Data Link Comments: 107



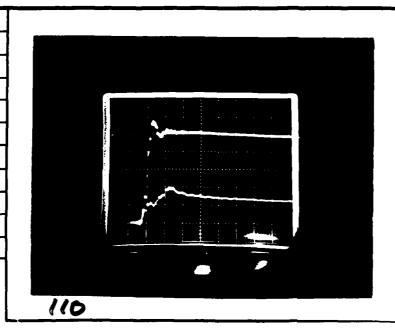
Date 5-24-85 Test Point 46R-BL-1/10-A **AmpHfication** Attenuation dB 20 ne/div 1 Horizontal Vertical . 5V mV/div 1 Horizontal ns/div 2 Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments: 108

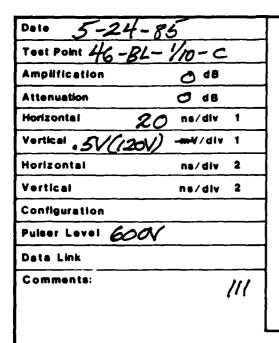


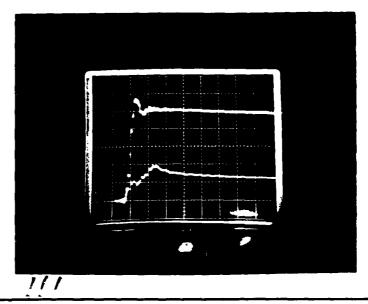
Date 5-21	4-85
Date 5-2/ Test Point 46-B	L-4/0-B
Amplification	O 48
Attenuation	O dB
Horizontal	20 ne/div 1
Vertical ,5V(120)	mV/div 1
Horizontal	ns/dlv 2
Vertical	ne/div 2
Configuration	
Pulser Level 60	oV
Data Link	
Comments:	109
	701



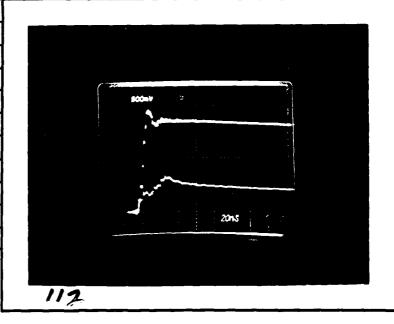
Date 5-24-	85
Test Point 46R-B	L-1/10-B
Amplification	O dB
Attenuation	♂ dB
Horizontal 20	ne/div 1
Vertical ,5V (120	OV) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	٥V
Data Link	
Comments:	110
	110



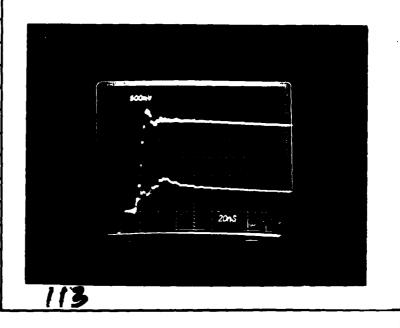


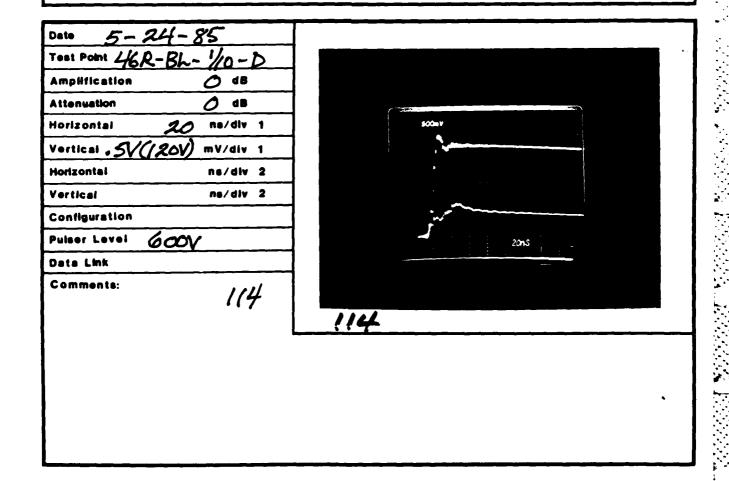


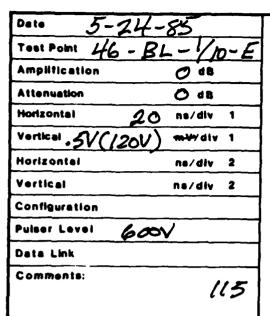
Date 5-24-85		
Test Point 46R-BL-	1/10-	ے
Amplification	Ø dB	
Attenuation	Ø 48	
Horizontal 20	ne/div	1
Vertical , 5V(120V)	mV/div	1
Horizontal	ne/div	2
Vertical	ne/dlv	2
Configuration		
Pulser Level 600 V	/	
Date Link		
Comments:		112

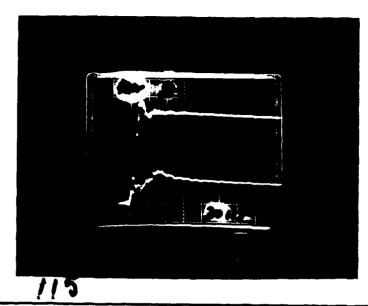


Date 5-24-	85
Date 5-24- Test Point 46-BL	-1/10-D
Amplification	O 48
Attenuation	Ø dB
Horizontal 20	ns/dlv 1
Vertical . 5V(120V)	mV/div 1
Horizontel	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600 V	·
Data Link	
Comments:	
	113

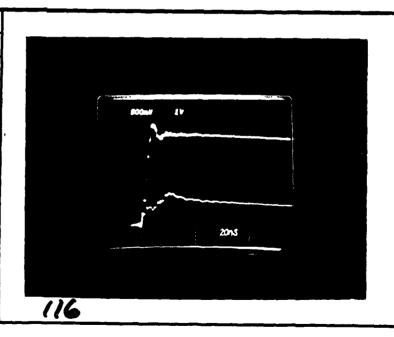


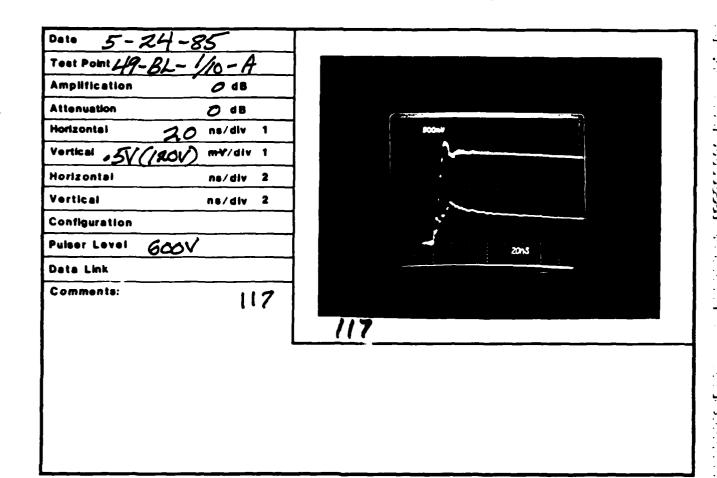


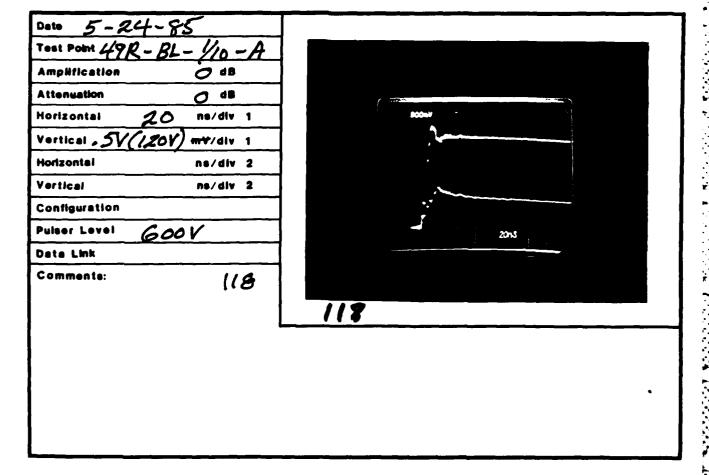




Date 5-	24-85
Test Point 46R-	BL-1/10-E
Amplification	O 48
Attenuation	Ø 48
Horizontel	28 ne/div 1
Vertical .5V(/	20V) my/div 1
Horizontal	ne/dlv 2
Vertical	ne/dly 2
Configuration	
Pulser Level 60	ωV
Date Link	
Comments:	116
	(* 0

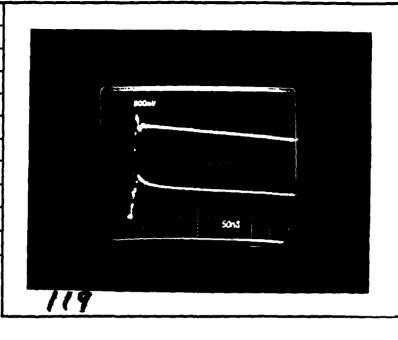




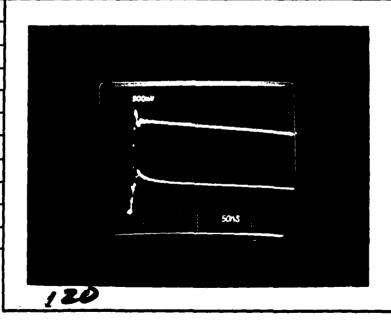


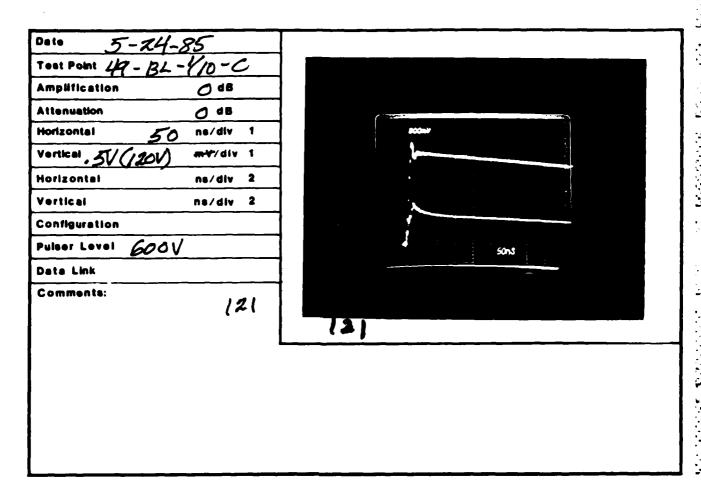
Date 4-3	24-85
Test Point 49	24-85 -BL-410-B
Amplification	048
Attenuation	648
Horizontal	50 ne/div 1
Vertical .5V	(120V)=Y/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	119

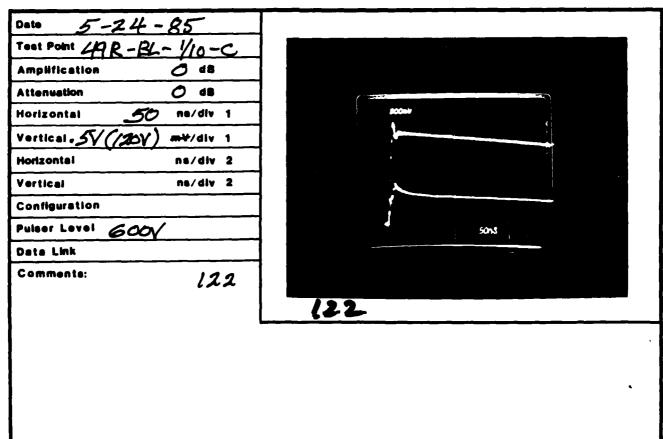
HORIZ = 50NS/



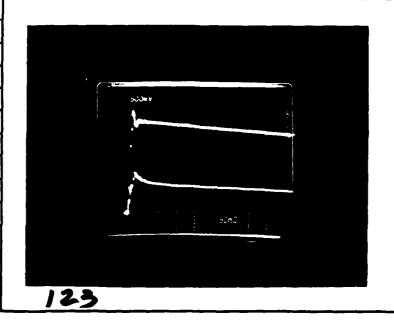
Date 4-3	24-85
	-BL-1/10-B
Amplification	O dB
Attenuation	Ø 48
Horizontal	50 ne/dlv 1
Vertical ,5V	120V)nV/dlv 1
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	120



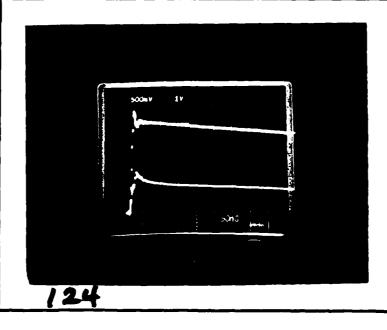




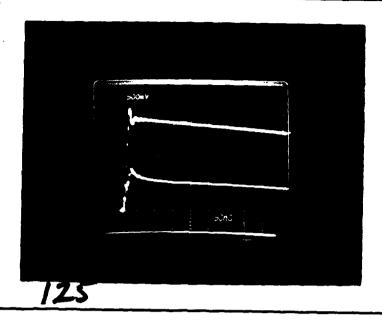
Date 5-24-85
Test Point 49-84-1/0-D
AmpHication 0 d8 Attenuation O dB Horizontal ns/div Vertical mW/div 1 Horizontal 2 ns/div Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments: 123



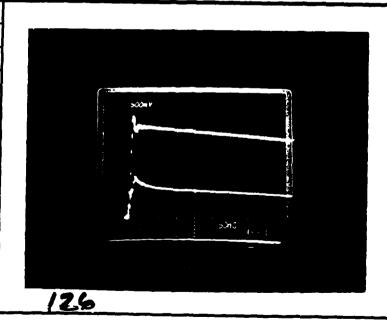
Date 5-3	24-85
Test Point 498	-BL-110-D
Amplification	048
Attenuation	O 48
Horizontal	50 ne/dlv 1
Vertical .5V(/	20V) #4/div 1
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level &	co V
Data Link	
Comments:	124
	. 27

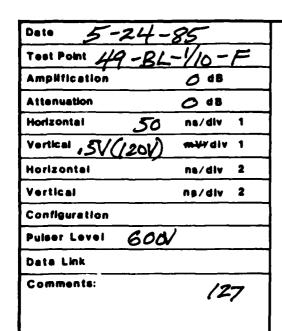


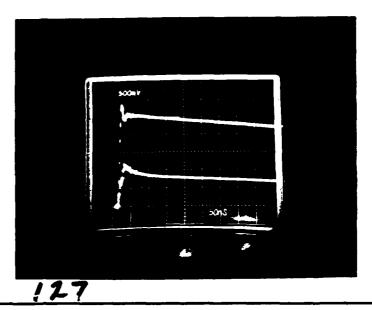
Date 5-24-85 Test Point 49-BL-1/10-E Amplification OdB Attenuation 0 dB Horizontai ns/dlv Vertical .5V(120V mV/div 1 Horizontal ne/dlv Vertical ns/div Configuration Pulser Level GOOV Date Link Comments: 125



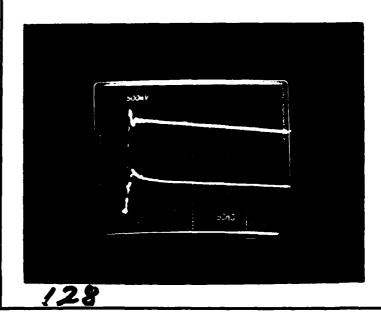
Date 5-24	-85
Test Point 49R-E	3L-1/10-E
AmpHilcation	Ø dB
Attenuation	0 48
Horizontal 5	O ne/dly 1
Vertical , SV(12c)	MV/dlv 1
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	ov
Data Link	
Comments:	126



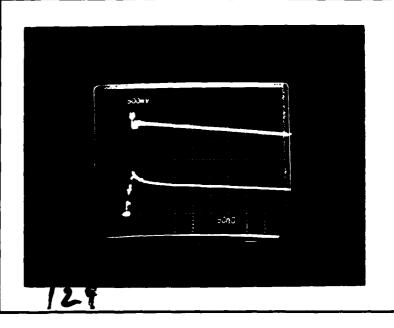


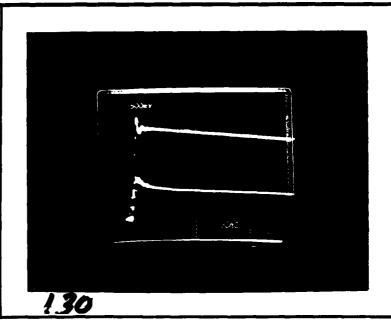


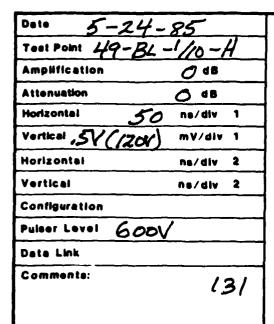
Date 5-24.	-85
Test Point 49R - BL	-1/10-F
Amplification	0 48
Attenuation	O 48
Horizontal 50	ne/dlv 1
Vertical .5V (1201)	#\/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60V	<i>'</i>
Data Link	
Comments:	128
	,,,,,

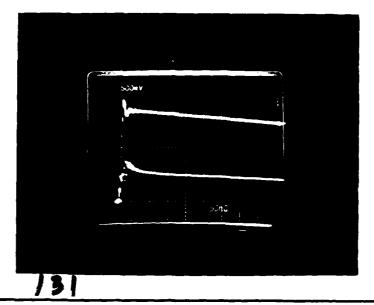


Date 5	24-85
Test Point 49	24-85 -BL-1/0-G
Amplification	Ø 48
Attenuation	O dB
Horizontal	50 ne/dlv 1
Vertical ,57 (1	20V) #7/div 1
Horizontal	ne/div 2
Vertical	ne/dlv 2
Configuration	
Pulser Level E	oov
Data Link	
Comments:	129

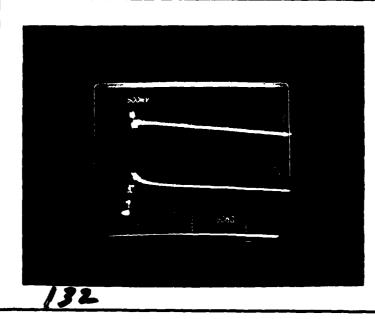






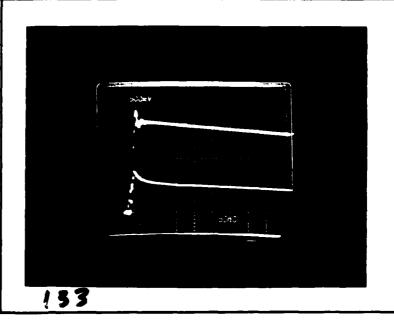


Date 5-3	24-85
Test Point 49R-	BL-1/10-H
Amplification	Ø dB
Attenuation	O 48
Horizontal	50 he/div 1
Vertical -5V (12	10V) =+/div 1
Horizontal	ne/dlv 2
Vertical	ne/dlv 2
Configuration	
Pulser Level 60	oV
Data Link	
Comments:	132

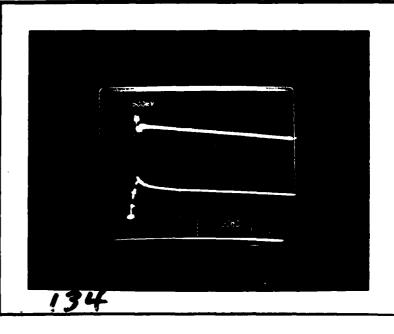


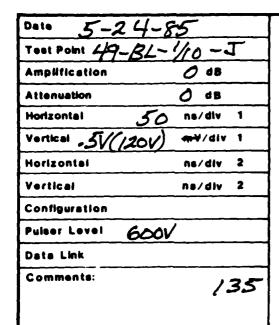
Date 5-24-85 Test Point 49-BL-1/0-I Dete Amplification O 48 0 dB Attenuation Horizontal ns/dlv Vertical . 5/ m¥/div 1 Horizontal 2 ns/dlv Vertical ns/div Configuration 600V Pulser Level Data Link Comments: 133

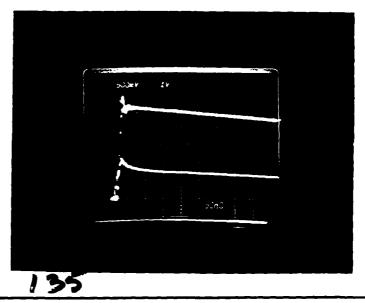
E



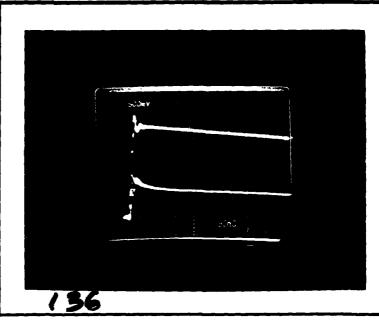
Date 5-24	1-85
Test Point LAR-B	
Amplification	O dB
Attenuation	O 48
Horizontal 50	
Vertical .51//20	V) #4/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 60	OV
Data Link	
Comments:	134



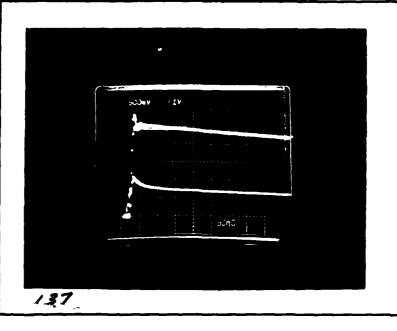




	والمراجع المنصوص المنصوص
Date 5-24-	85
Test Point 49R-B	4-1/10-5
AmpHilcation	Ø 48
Attenuation	0 48
	ne/dlv 1
Vertical, 5V (120)	/) mV 7dlv 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	/36
	700

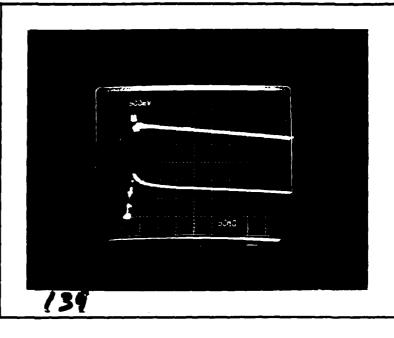


Dete Test Point 49-BL- 1/0K dB Amplification d B Attenuation Horizontal ns/dlv Vertical .5 ₩¥/div 1 Horizontal ns/div 2 Vertical ns/dlv 2 Configuration 600V Pulser Level Data Link Comments: 137

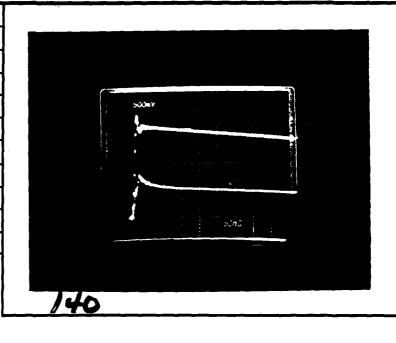


Date 5-2	24-85	
	-BL-1/10-K	
Amplification	O dB	
Attenuation	Ø 48	
Horizontal 50	ne/dlv 1	SOORY IV
Vertical, SVC/2	OV) my/div 1	
Horizontal	na/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 6	00 V	and the second of the second o
Data Link		
Comments:	138	
		128
		•

Dete 5-24-85 Test Point 49-BL-1/10-L O 48 Amplification O dB Attenuation Horizontai ne/div Vertical Si mV/div Horizontal 2 ns/dlv Vertical ns/div Configuration 600V Pulser Level Data Link Comments: 139

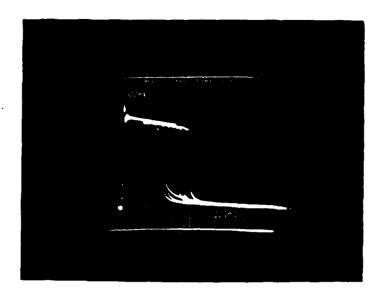


Date Test Point 49R-BL-O dB Amplification 0 dB Attenuation Horizontal ne/div 1 Vertical ,5V(/20V mV/div Horizontai ns/div 2 Vertical ns/dlv 2 Configuration 600V Pulser Level Data Link 140 Comments:

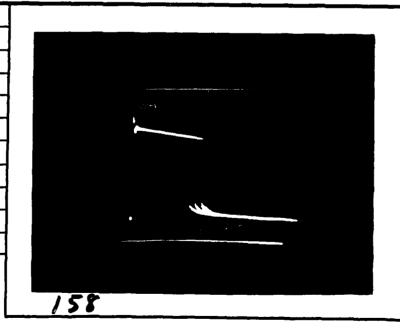


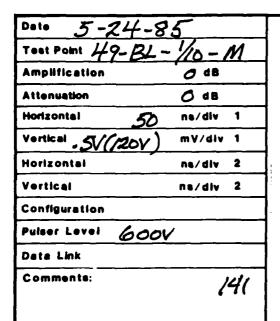
THE PROPERTY AND THE PR

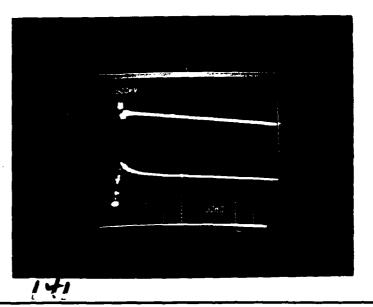
Date 5-24-	85
Test Point 55-BL-	1/10-A
Amplification	O 48
Attenuation	O dB
Horizontal 100	ns/dlv 1
Vertical . 5V(120V)	m¥/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	157
HORIZ = 100NS	



Date 5-24	1-85
Test Point 55R-B.	L-1/0-A
Amplification	Ø dB
Attenuation	O 48
Horizontai /00	
Vertical, SV(1200	/) m4/dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	158

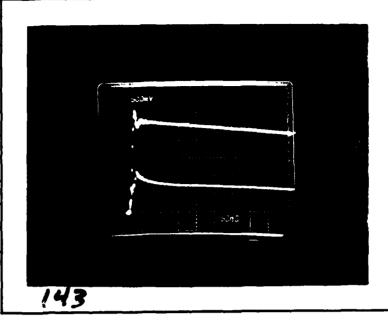




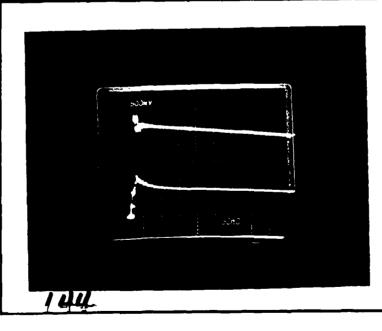


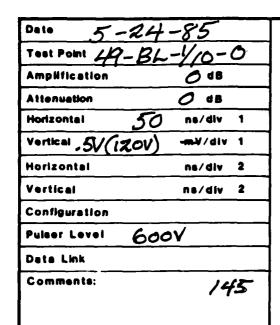
Date 5-2	4-85	
Test Point 49R-	8L-1/10-M	
Amplification	O dB	
Attenuation	0 48	
Horizontal 3	O ne/dlv 1	V motos
Vertical, 5V (120	OV) mV/dlv 1	
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600	OV	i i i i i i i i i i i i i i i i i i i
Data Link		
Comments:	142	
		142
		•
		•

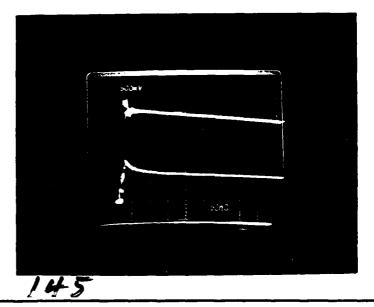
Date Test Point 49-BL O dB Amplification 0 dB Attenuation Horizontal ns/dlv Vertical, 5V(120V) ₩Vdiv Horizontal ns/div Vertical ns/div Configuration Pulser Level 600V Data Link Comments:



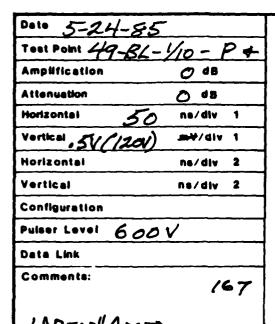
5-24-85 Teet Point 49R-BL-1/10-N O dB Amplification O 48 Attenuation ne/dlv 1 Horizontal Vertical, 5VC/20V mH/dlv 1 Horizontal no/dlv 2 ns/div 2 Vertical Configuration 600V Pulser Level Data Link Comments: 144

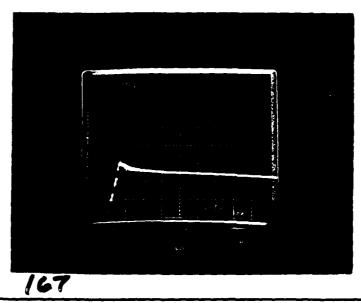






Date 5-24	1-05	
Test Point 49R-B	0dB	
AmpHication		
Attenuation	<i>O</i> 48	
Horizontal 50	ne/dlv 1	SOUMY
Vertical .5V(120	/) =4/dlv 1	
Horizontal	ne/div 2	
Vertical	ns/dlv 2	
Configuration		
Pulser Level 60	×OV	Sens (
Data Link		
Comments:	146	
		146



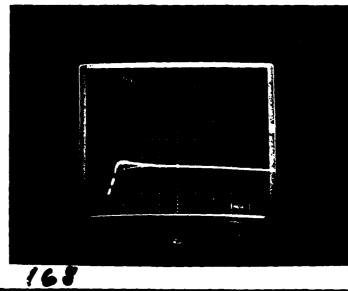


/ BEAD A POED

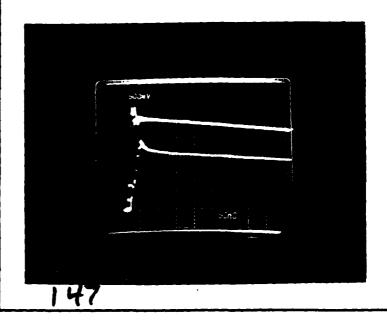
Date Test Point 49 BL - 1/10 -Amplification dB Attenuation dB Horizontal ne/dlv 1 Vertical 51/ mV/dlv 1 Horizontal ns/dlv 2 Vertical ns/div 2 Configuration Pulser Level 600 V Data Link Comments:

3 "BEADS" ADDED

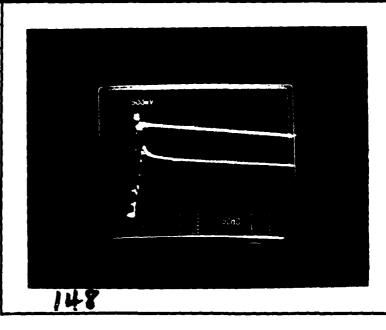
16



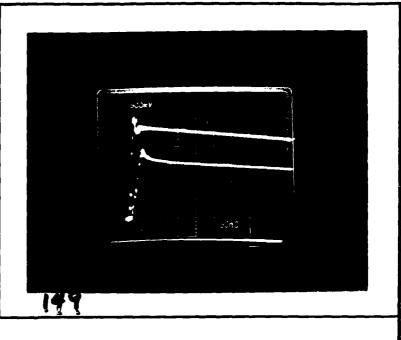
المراج والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	
Dote 5-24-	-85
Dete 5-24- Test Point 52-BL-	10-A
Amplification	O dB
Attenuation	Ø 48
Horizontei 50	ne/div 1
Vertical .5/(/201)	mV/div 1
Horizontal	na/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600V	/
Data Link	
Comments:	147
	() [



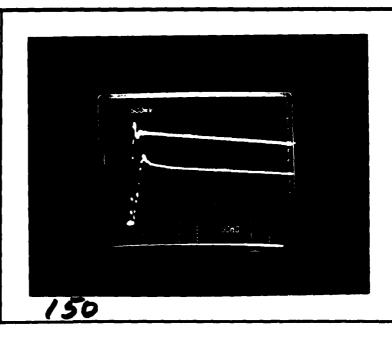
Date 5-24	4-85
Test Point 52R-B	L-1/10-A
Amplification	O dB
Attenuation	O 48
Horizontal 5	O ne/div 1
Vertical .5/ (120	⊘√) m¥ /dlv 1
Hortzontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	POY
Deta Link	
Comments:	148

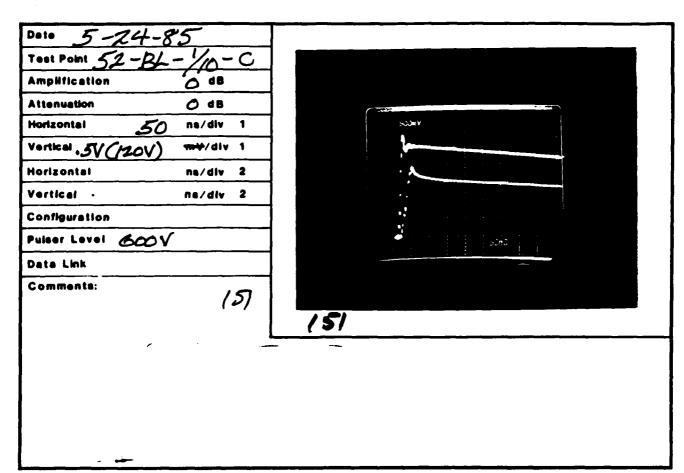


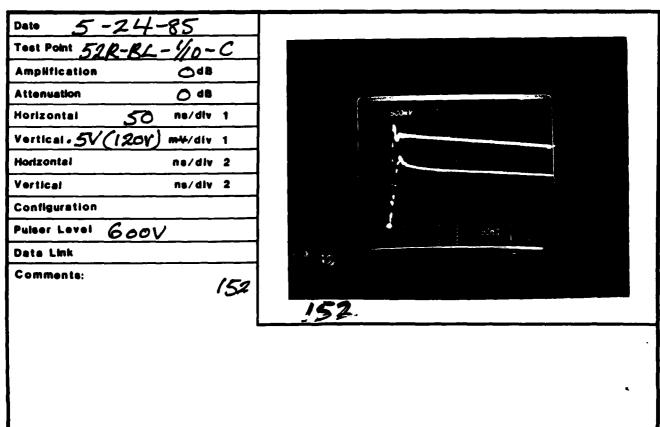
5-24-85 52-81-90-B Date Test Point Amplification Ø 48 Attenuation ne/div Horizontal 50 Vertical .5\((120V) m¥/div 1 Horizontal 2 ne/div Vertical 2 ns/dlv Configuration 600V Pulser Level Data Link Comments: 149



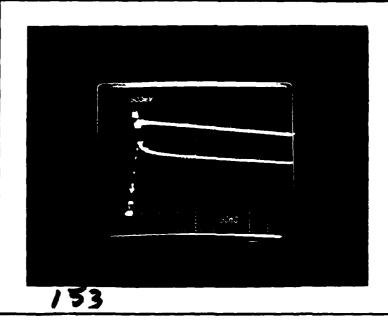
Date 5-2	24-85
Test Point 52/	2-BL-110-B
Amplification	0 48
Attenuation	O 48
Horizontal	50 ne/div 1
Vertical, SV((20V) -W/div 1
Horizontal	ne/div 2
Vertical	ne/dly 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	150
	.05



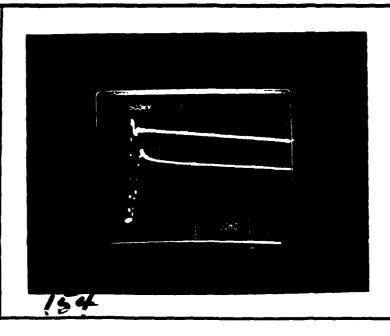


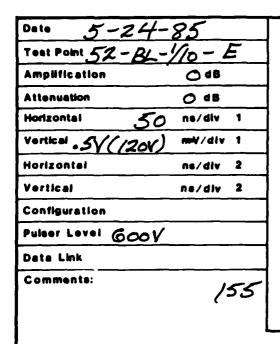


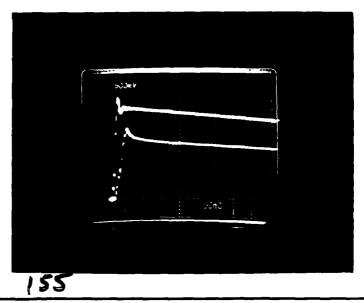
Date 5-24-85 Test Point 52-BL-1/10. 0 48 Amplification Attenuation d B Horizontal ns/div Vertical .5V m\/div Horizontal ns/dlv 2 Vertical ns/div Configuration Pulser Level 600V Data Link Comments: 153



5-24-85 Date Test Point 52R-BL-10-D O 48 Amplification O 45 Attenuation Horizontal 50 ns/dlv 1 Vertical .5V m¥/dly 1 **Horizonta**! ne/div 2 Vertical ns/div 2 Configuration 600V Pulser Level Data Link Comments: 154

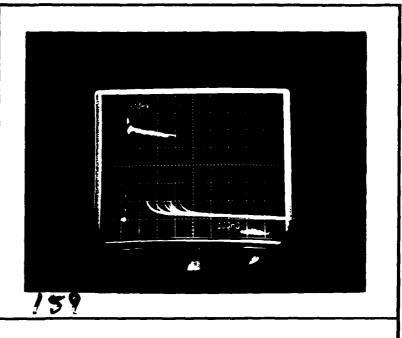




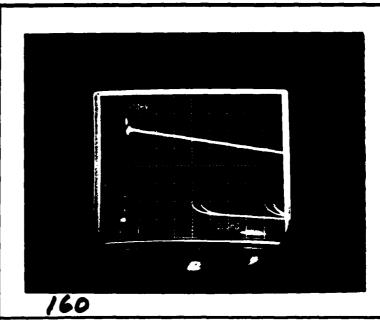


Vertical Configuration	ne/div 2		· •
Pulser Level 6	ioov		echs (
Data Link Comments:	/56	-	5015

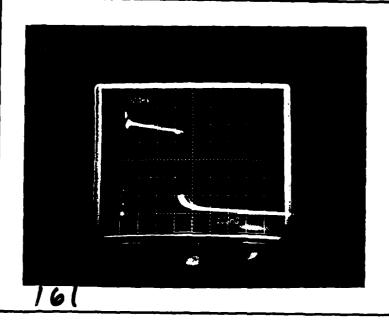
Date 5-24-85 Test Point 55-BL-1/0-B Ö 48 Amplification 0 dB Attenuation 100 ns/div Horizontal Vertical .5V mV/div Horizontal 2 ns/dlv Vertical ns/dlv 2 Configuration 600V Pulser Level Data Link Comments: 139



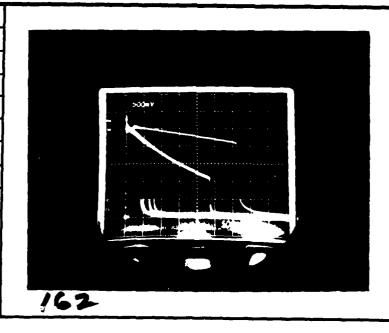
Date 5-24	1-85
Test Point 55R-	BL-1/10-B
Amplification	Ø 4B
Attenuation	Ø 4B
Horizontal	ne/dlv 1
Vertical .5V (/2	Wolf and I
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	001
Data Link	
Comments:	160
	, 55



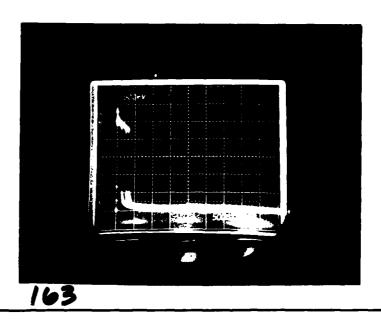
5-24-85 Dete Test Point 55-BL-1/10-B
Amplification 8 dB O dB Attenuation 100 ns/div Horizontal Vertical , SV (120V) mV/dlv 1 Horizontal 2 ns/dlv Vertical 2 ns/div Configuration Pulser Level BOOV Data Link Comments: 161



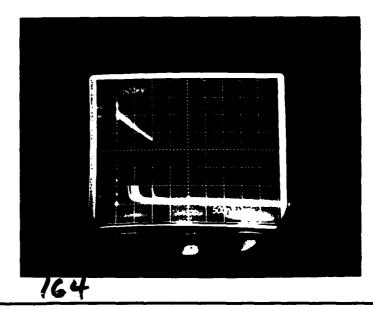
Date	
Test Point 53R-BL-	1/10-B
AmpHfication	Ø dB
Attenuation	0 dB
Horizontal 500	ns/dlv 1
Vertical .5V(120V)	m¥/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Dete Link	
Comments:	162
500NS/	162

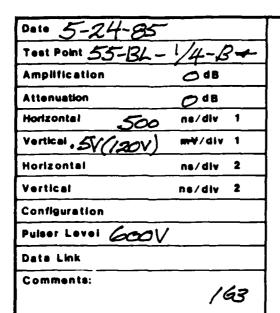


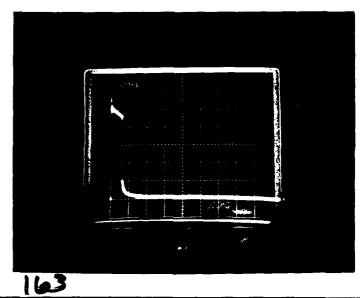
0010 5-24-85 Test Point 55-BL-1/10-B= O dB Amplification Ø 4B Attenuation Horizontal ns/div 500 Vertical .5V(120V m¥/div Morizontal 2 ne/div Vertical ns/div Configuration 600V Pulser Level Data Link Comments: 163



Date	
Test Point 55R - BL	1-1/10-B=
Amplification	Ø4B
Attenuation	Ø 48
Horizontal 500	ns/div 1
Vertical .5V(120V)	mV/dlv 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	
Data Link	
Comments:	164

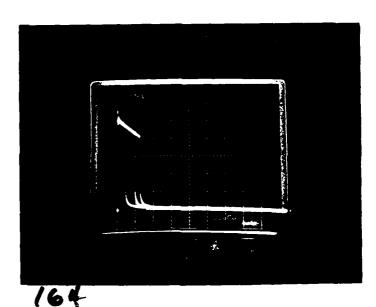




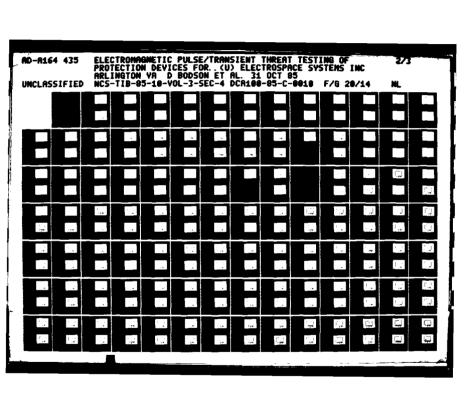


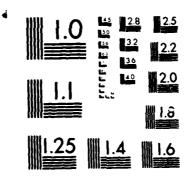
PURSERATE SLOWED TO 4/4 SEC (4 POR SES)

Date Tool Point 53R-BL-1/4-B-O dB AmpHication Attenuation O dB Horizontal ne/dlv 1 500 Vertical -5/(120V and/div 1 Horizontal ns/div Vertical ns/dlv 2 Configuration Pulser Level 600V Data Link Comments: 164



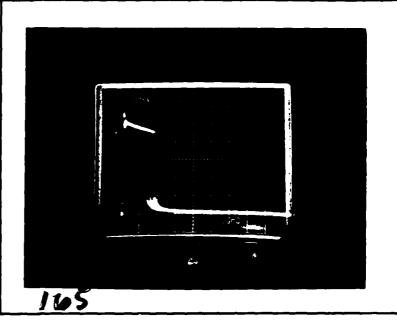
PULSE RATE SLOWED TO 4/4 SEC (4 POUSES)



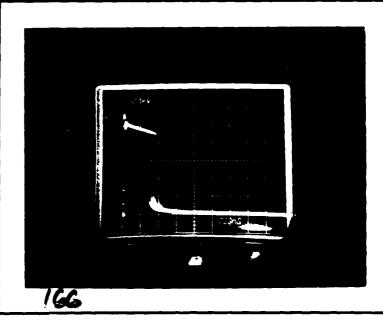


MICROCOPY RESOLUTION TEST CHART

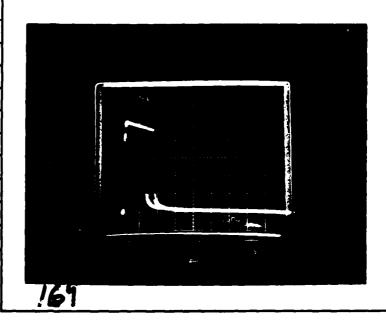
5-24-85 Dete Test Point 55-BL-10 48 **Amplification** Attenuation dB Horizontal ne/dlv 200 Vertical .5 my/div 1 2 Horizontal ne/dlv Vertical ne/dlv Configuration 600 Y Pulser Level Data Link Comments: 165 200NS/



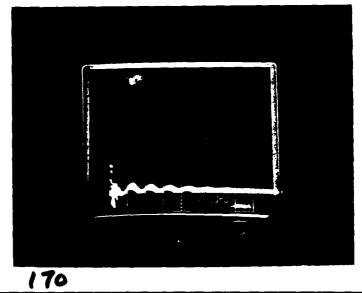
5-24-85 Date Test Point 55R-BL-1/10-C Amplification 48 Attenuation dB ns/dlv 1 Horizontal Vertical ,5V(120V) me/div 1 Horizontal ne/div 2 Vertical ns/dlv 2 Configuration Pulser Level 600V Data Link Comments: 166



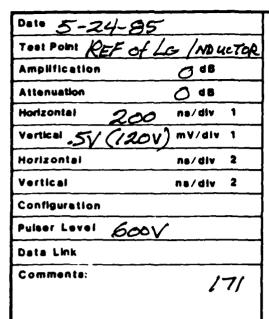
Date 5-24-85 Test Point 55-BL-1/10- C+ Amplification 0 dB đ B Attenuation ne/dlv Horizontal 200 m¥/div 1 Vertical .5/(120V) 2 Horizontal ne/div Vertical ns/dlv Configuration Pulser Level 600V Data Link Comments: 169 3BEADS"

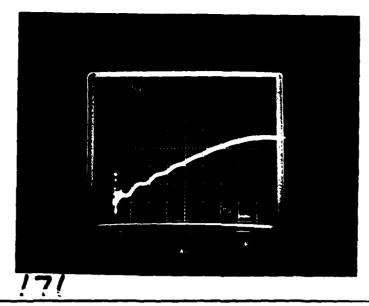


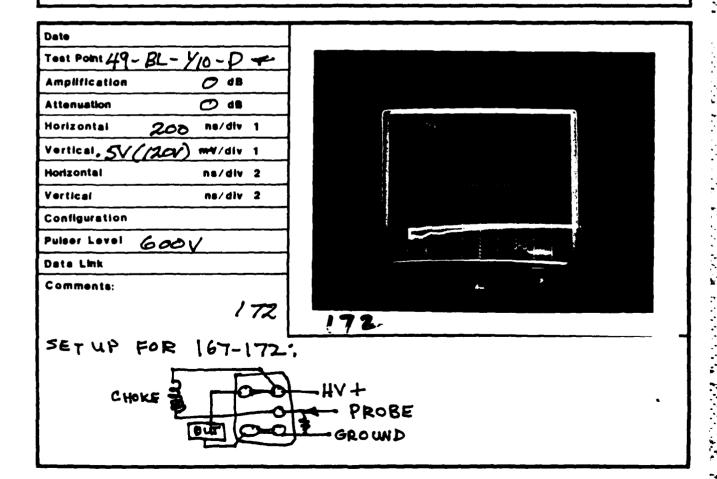
Date	
Test Point 55-BL-	110-6-
Amplification	Ø dB
Attenuation	Ø dB
Horizontal 200	ns/div 1
Horizontal 200 Vertical , SV (/20V)	m¥/div 1
Hortzontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 6001	
Date Link	
Comments:	170
,	



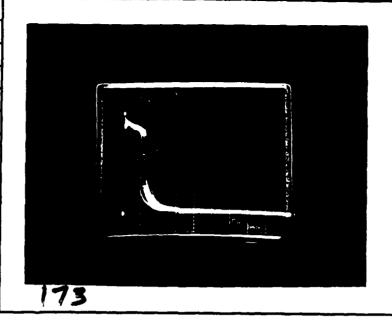
LARGE INDUCTOR ADDED



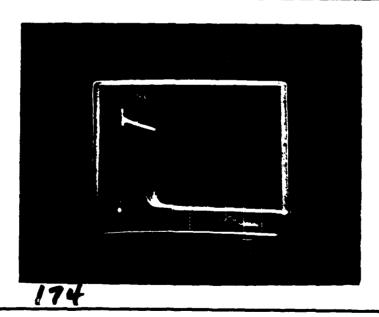


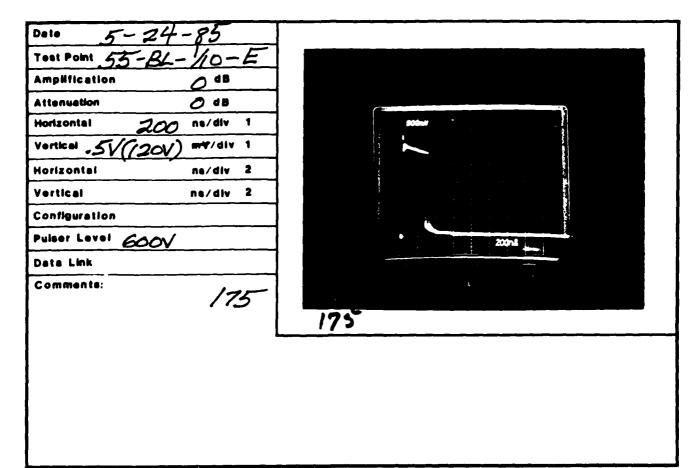


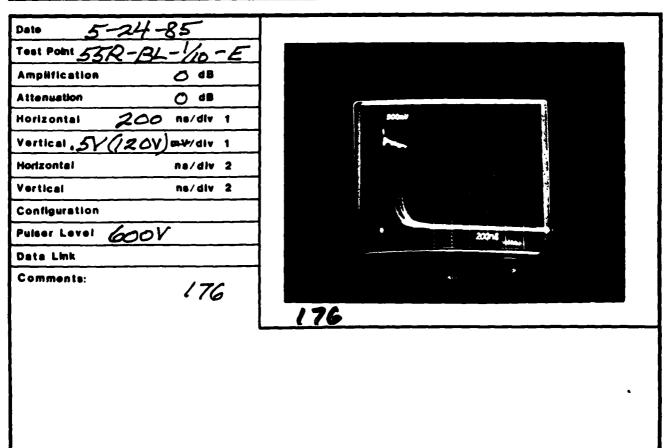
Dele 5-24 -	-85
Test Point 35-BL-	10-D
Amplification	Ø 48
Attenuation	O 48
Horizontal 200	ns/div 1
Vertical .5V(120V)	##/div 1
Horizontai	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level GOOV	
Deta Link	
Comments:	172
	173



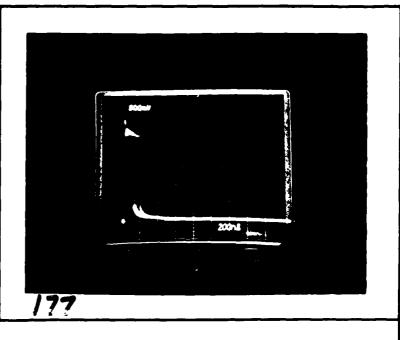
Date 5-21	4-85
Test Point 55R-	BL-1/0-D
Amplification	O 48
Attenuation	O d8
Horizontal 20	OD ne/div 1
Vertical .5/(/2	OV) merdir 1
Horizontal	ne/div 2
Vertical	ne/dly 2
Configuration	
Pulser Level 60	⊘ ∨
Data Link	
Comments:	174
	• • /



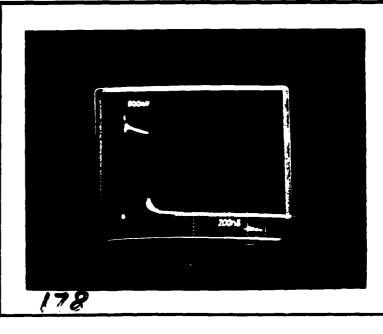




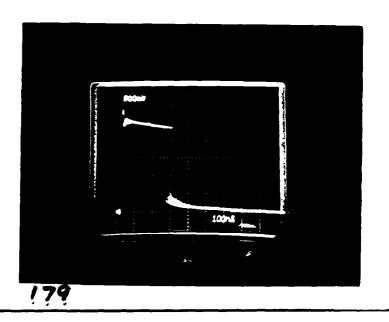
Date 5-24-85 Test Point 58-BL-1/0 - A 0 48 Amplification 0 dB Attenuation ns/div Horizontal 200 Vertical .5V **p¥**/div Horizontal ns/dlv Vertical ns/dlv Configuration 600V Pulser Level Data Link Comments: 177



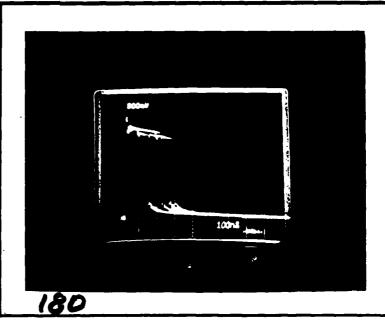
Date 5-24-	85
Test Point 58R- BL- 1/10-A	
Amplification	O dB
Attenuation	0 48
Horizontal 200	ne/dlv 1
Vertical, 51(120V)	mt/dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600V	
Dete Link	
Comments:	178



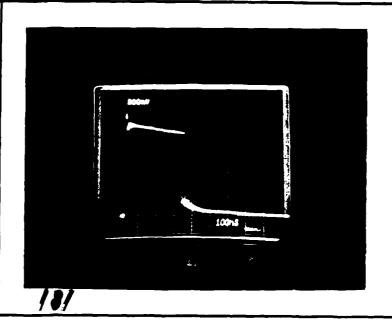
Date 5-24-85
Test Point 58-BL-1/10-B O 48 Attenuation ns/dlv Horizontal Vertical .5V(120V) m¥/div Horizontal ns/dlv Vertical ns/div Configuration Pulser Level 600 V Data Link Comments: 179 100NS/



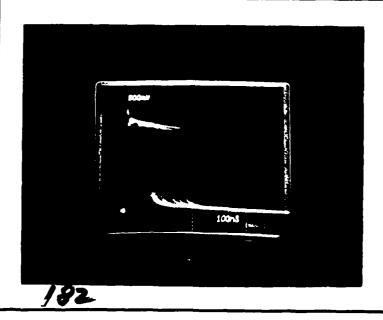
	والمساور والمساور والمساورة
Date 5-24-	85
Test Point 58R-B	4-1/0-B
Amplification	Ø dB
Attenuation	Ø 48
Horizontal 100	
Vertical . 5V (/26	V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	20V
Data Link	
Comments:	180
	180



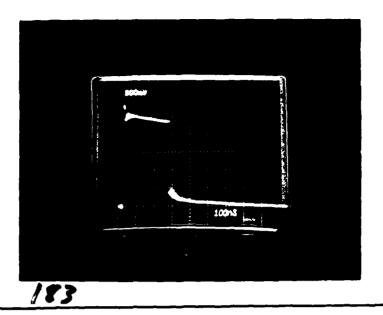
Dete 5-24-85 Test Point 58-BL-1/0- C OdB Amplification 0 48 Attenuation Horizontal ne/div 100 Vertical .57(120V) my/dlv Horizontal ns/div 2 Vertical ns/div Configuration Pulser Level 600V Data Link Comments: 18/



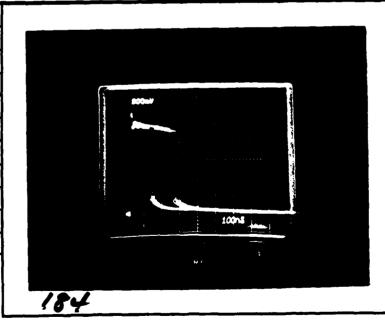
Date 5-24	- 85
Test Point 58R-B	
AmpHilcation	048
Attenuation	Ø 48
Horizontal 100	
Vertical .5V(120)	/) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	182



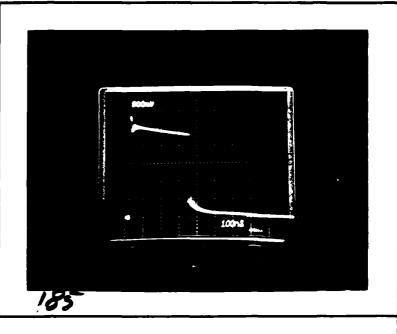
5-24-85 Dete Teet Point 58-BL-10-D O dB Amplification Attenuation O dB ns/dlv Horizontal 100 Vertical .5Y(/ZOV mV/dlv 1 2 Horizontal ne/dlv ns/div 2 Vertical Configuration Pulser Level 600V Data Link Comments: 183



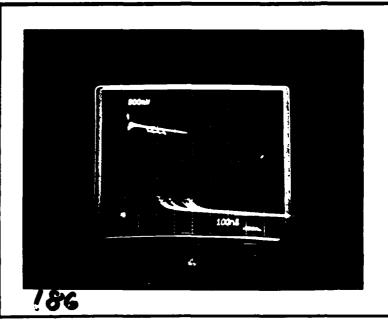
5-24-85 Date Test Point 58R-BL-1/10-D Ø dB AmpHfication O 48 Attenuation ns/dlv 1 Horizontal 100 Vertical . 57 (120V) mW/dlv 1 Horizontei ne/dlv 2 ne/div 2 Vertical Configuration 600V Pulser Level Data Link Comments: 184

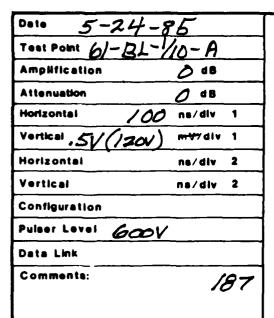


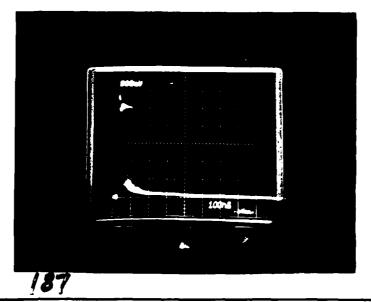
Dete Test Point 58 -ØdB Amplification O dB Attenuation ne/dlv Horizontal 100 Vertical mi/div Horizontal ns/div 2 Vertical ns/dlv 2 Configuration 600V Pulser Level Data Link Comments: 185



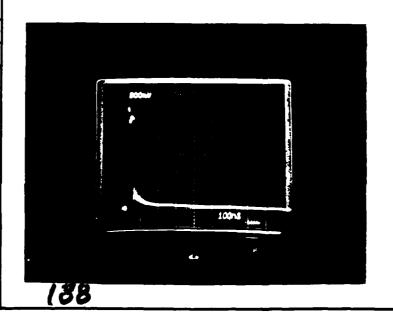
Date 5-24-	85		
Test Point 58R - B	L-1/10-E		
Amplification	O 48		
Attenuation	O 48		
Horizontal / Oc	ne/div 1		
Vertical .5V (120)	mit/dlv 1		
Horizontal	ns/div 2		
Vertical	ns/div 2		
Configuration			
Pulser Level 600			
Data Link			
Comments:	186		

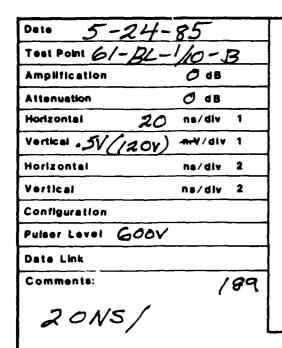


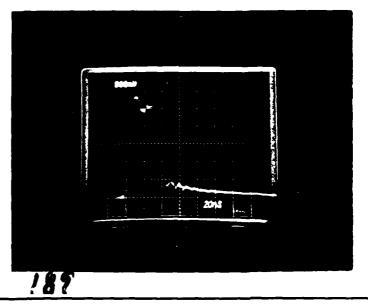




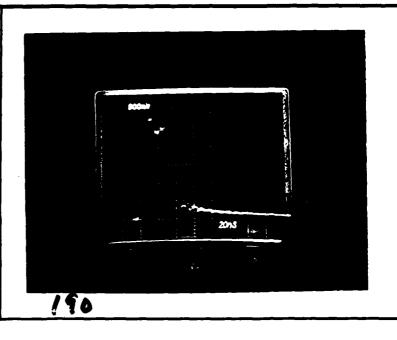
Date 5-24	4-85
Test Point 6/R-B	L-110-A
Amplification	O dB
Attenuation	Ø dB
Horizontal /	00 ne/dlv 1
Vertical .5V (13	20V)mV/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	ov V
Data Link	
Comments:	188
	. 40

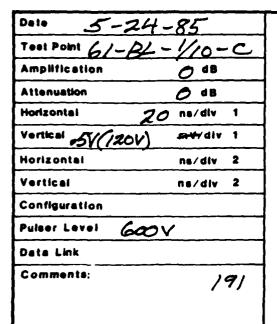


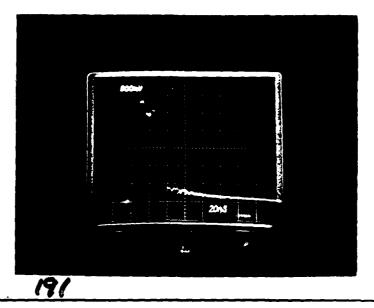




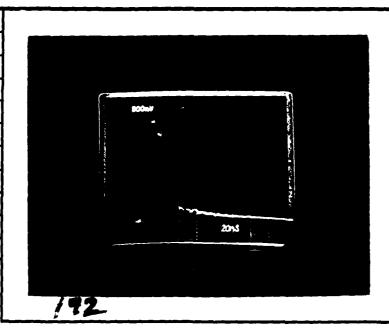
Date 5-2	4-85
Test Point 6/R-	B-1/10-B
Amplification	OdB
Attenuation	O dB
•	20 ne/dlv 1
Vertical .5V(1	20Y) == /div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level E	∞v
Deta Link	
Comments:	190



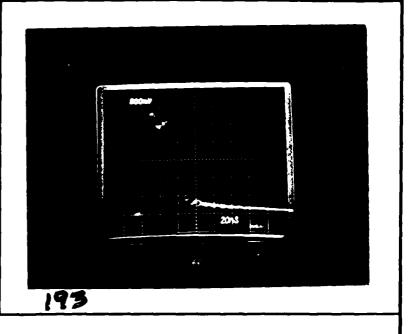




	24-85
Test Point 6/1	-BL-1/10-C
Amplification	O dB
Attenuation	Ø d8
Horizontal	20 ne/dlv 1
Vertical .5V((20V) #V/div 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	192

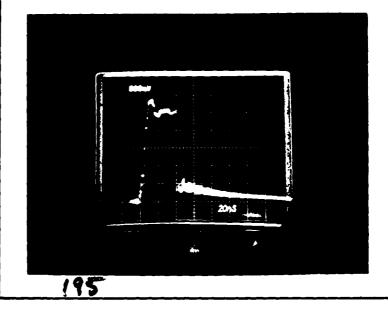


Date 5-24-85
Test Point 6/-BL-1/0-D 0 48 Amplification Ø dB Attenuation Horizontal ns/dlv 20 Vertical . 5V(120V mV/dlv 1 Horizontal 2 ne/dlv Vertical ns/dlv Configuration 600V Pulser Level Data Link Comments: 193



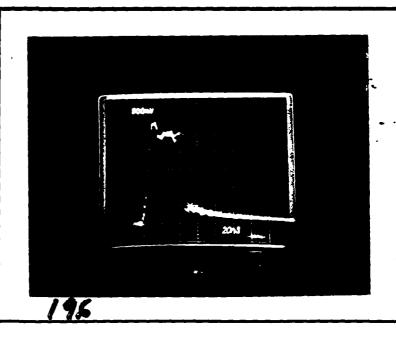
Date 5-2	24-85					
Test Point GIR-	24-85 BL-1/10-D					
Amplification	O dB					
Attenuation	O 48				9	
Horizontal	20 ns/div 1		BOOM			
Vertical .5V(12	OV) my/div 1	1	•			
Horizontel	ne/dlv 2					
Vertical	ns/dlv 2					
Configuration				14-		
Pulser Level 6	∞v			2013	1	
Data Link		_				
Comments:	194			Art.		
		194				
						

5-24-85 Test Point 6/-BL- 1/10-E Amplification O dB Attenuation Horizontal ns/div 20 Vertical .5V (120V m¥/div Horizontal ns/div Vertical ne/div Configuration 600V Pulser Level Data Link Comments: 195

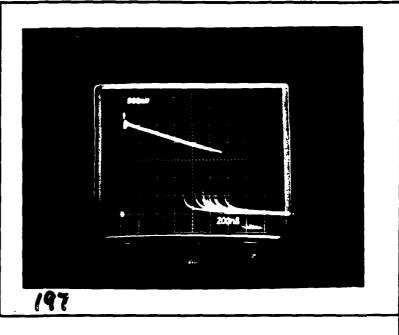


RUN WITH PULSER TO Show RISE + FALL

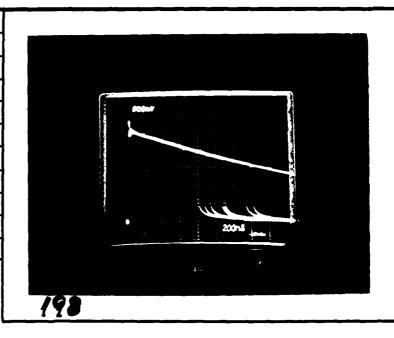
5-24-85 Date Test Point GIR - BL- 1/0-E 0 dB Amplification Attenuation 0 48 na/dlv 1 Horizontal 20 Vertical .5V (120V) mV/dlv 1 Hortzontal ne/dlv 2 Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments: 196 RUN WITH PULSER TO Show RISE RTACK



Date Test Point 64 O dB Amplification Attenuation O dB 200 ne/dly Horizontal Vertical .5V mY/div Horizontal 2 na/div Vertical ns/div 2 Configuration Pulser Level 600V Data Link Comments: 197

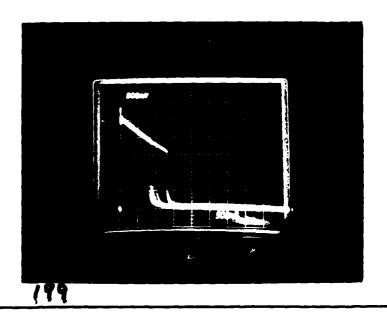


Date 5-2	4-85		
Test Point 642-	BL-1/0-A		
Amplification	Ø dB		
Attenuation	Ø dB		
Horizontal	200 ne/div 1		
Vertical, 5V ((20V) ma/div 1			
Horizontal	ne/div 2		
Vertical	ns/div 2		
Configuration			
Pulser Level 6	OOV		
Data Link			
Comments:	198		

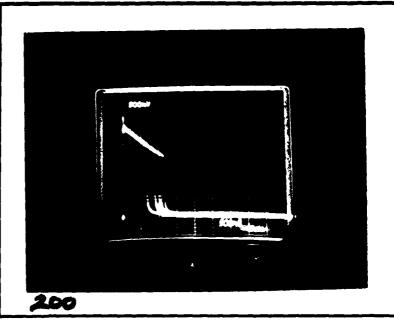


1/10-A Test Point 048 Amplification 000 Attenuation Horizontal 500 ne/div Vertical .51/ /201 m¥7dlv 1 Horizontal 2 ne/div Vertical ne/dlv 2 Configuration Pulser Level Data Link Comments: 199

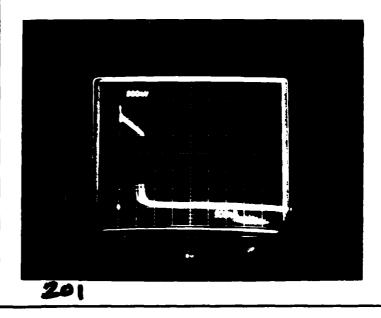
500NS/



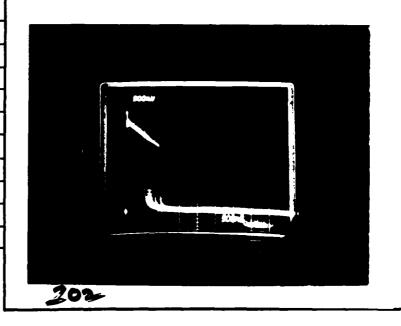
Date			
Test Point 64-R1-1/10 Ad-			
AmpHfication	dB		
Attenuation	48		
Horizontal	ne/div 1		
Vertical	mV/div 1		
Horizontal	ne/div 2		
Vertical	ns/div 2		
Configuration			
Pulser Level			
Deta Link			
Comments:	200		



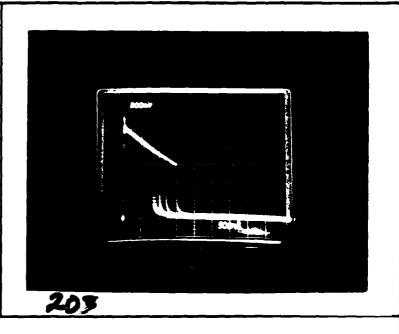
Dete 5-2	4-85
Date 5-2 Test Point 64-6	7L-1/10-B
Amplification	0 48
Attenuation	0 dB
Horizontal	Soo ne/div 1
Vertical .SV (126	OV) mWdiv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	70 V
Data Link	
Comments:	
	201



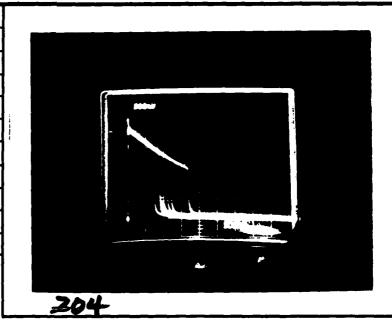
Date 5-24	4-85
Test Point 64R -	BL-110-B
AmpHfication	Ø 48
Attenuation	Ø 48
Horizontal 5	00 ne/div 1
Verticale 5V(12	OV) m4/dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	201
Data Link	
Comments:	202
	202



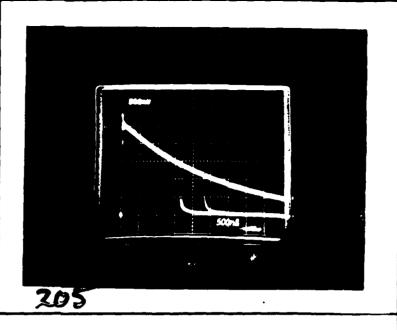
Date 5-24-85 Test Point 64-BL-1/10-C 0 48 Amplification 0 48 Attenuation 500 Horizontal ns/div Vertical .5V(120V mW/div 1 Horizontal ne/dlv 2 Vertical ns/div 2 Configuration 600V Pulser Level Data Link Comments: 203



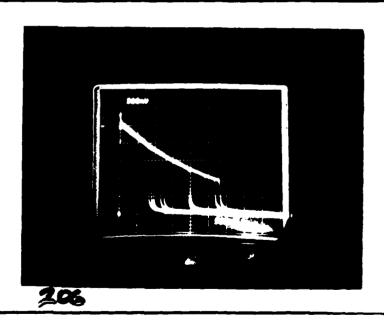
Date 5-	-24 - 85
	R-BL-1/10-C
Amplification	OdB
Attenuation	Ø d8
Horizontal	500 ne/dlv 1
Vertical,5V	(120V) my/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	600 V
Data Link	
Comments:	204
	•



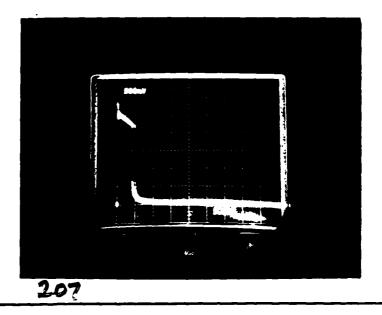
Tool Point 64-BL-Amplification 0 48 Attenuation O 48 Horizontal ns/dlv 500 Vertical .5V (120V) m¥/dlv Horizontal ns/div Vertical ne/dlv Configuration Pulser Level 600 V Data Link Comments: 205



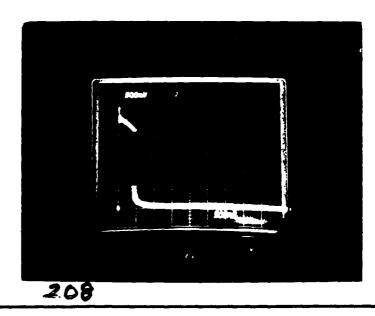
Date 5-24-85
Test Point 64R-BL-1/0-D 0 48 AmpHilcation Attenuation 7 48 Horizontal ne/div 1 Vertical .5V(120V) mW/dlv 1 Horizontal ne/div 2 Vertical ne/dlv 2 Configuration Pulser Level GOOV Data Link Comments: 206

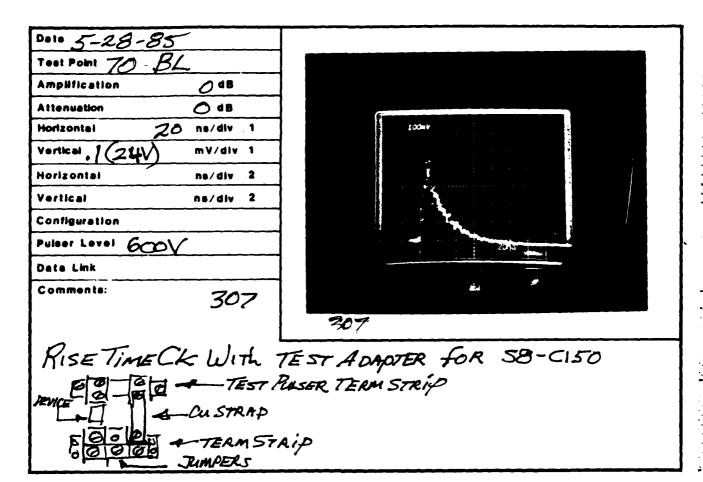


0010 5-24-	85
Test Point 64-BL-	1/10-E
Amplification	0 48
Attenuation	O 48
Horizontal 500	ne/div 1
Vertical . SV(120V)	æ₹/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600V	<i>'</i>
Data Link	
Comments:	207
	201



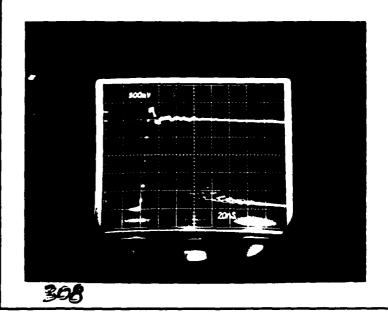
Date 5-2	4-85
Test Point 64 R -	BL-110-E
Amplification	O dB
Attenuation	Ø 68
Horizontal	500 ne/dlv 1
Vertical , 5V (1.	201) mT/dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	20V
Deta Link	
Comments:	208



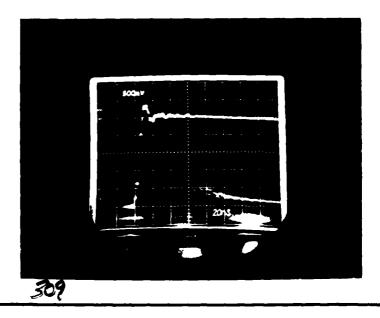


Test Point Amplification		
Amplification		
	d B	
Attenuation	46	
Horizontal	ns/dlv	1
Vertical	mV/div	1
Horizontal	ne/div	2
Vertical	ne/div	2
Configuration		
Pulser Level		
Dete Link		
Comments:		

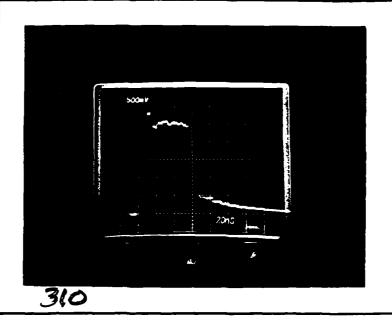
5-28-85 Dete Test Point 70-BL-400-A O dB Amplification O dB Attenuation Horizontal 20 ne/div Vertical .SV(120V) mV/div 1 Horizontal ns/div Vertical ns/div Configuration Pulser Level 600V Data Link Comments: 308



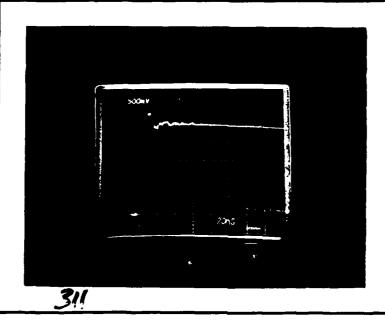
Date 5-28-8	5	
Test Point 70R-BL-110-A		
Amplification	O 48	
Attenuation	O dB	
Horizontal 20	ns/div 1	
Vertical .5V(120 V)	mV/dlv 1	
Horizontal	ne/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600V		
Data Link		
Comments:	309	



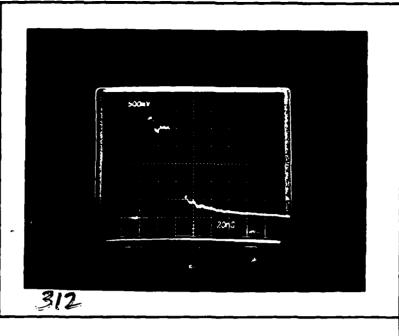
Date 5-28-85 Test Point 70-BL-1/10-B 0 48 Amplification O 48 Attenuation Horizontal ne/dlv 20 venical .5V(120V) mV/div 1 Horizontai ne/div Vertical ns/div Configuration Pulser Level 600V Data Link Comments: 310



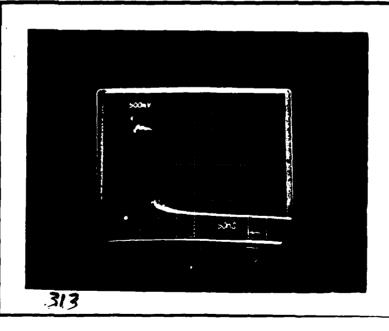
Date 5-2	28-85	
Test Point 70R	-BL-/10-B	
AmpHilication	O dB	
Attenuation	Ø dB	
Horizontal	20 ne/dlv 1	
Vertical, S/C/2	ROV) WY/div 1	
Horizontal	ns/div 2	
Vertical	ne/div 2	
Configuration		
Pulser Level GOOV		
Data Link		
Comments:	311	

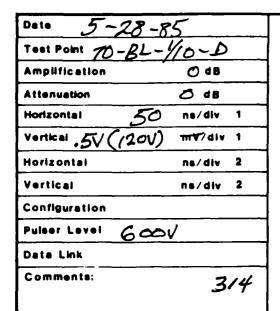


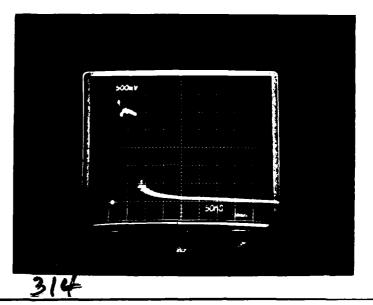
Dete 5-28-85 Test Point 70-BL-1/10-C O 48 Amplification Ø dB Attenuation ZO na/div Horizontal Vertical .5 m¥/div (120V) Horizontai ns/dlv Vertical ns/dlv 2 Configuration Pulser Level 600 V Data Link Comments: 312



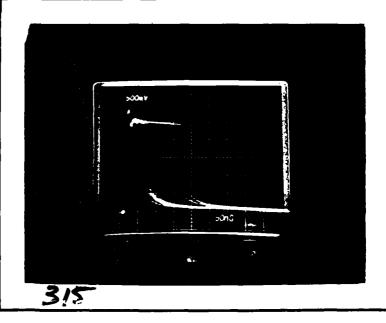
Date 5-28	-85
Test Point 792-B	
AmpHfication	O dB
Attenuation	O 48
Horizontal 3	o ne/dlv 1
Vertical. 5V(120	OV) #1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	313
	7. 3
50ND/DIV	,
<i>-</i>	







Date 5-28	-85
Test Point 70K-	
Amplification	O dB
Attenuation	O 48
Horizontal	ne/dlv 1
Vertical,5V(120	W/ mY/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 6	DO V
Date Link	
Comments:	3/5



5-28-85 Dete Test Point 70-BL-110-E Ø dB Amplification Attenuation O dB Horizontal ns/dlv Vertical . 5 mVydiv 1 Horizontal ns/dlv Vertical 2 ne/div Configuration Pulser Level GOOV Data Link Comments: 3/6

4 PULSES IN 4 SEC.

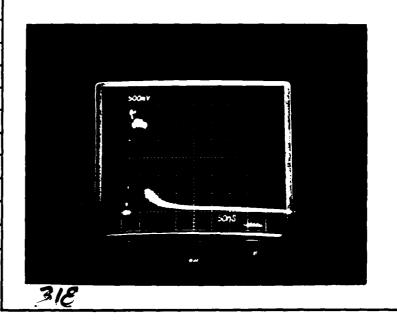
316

Date 5-28-85 Test Point 70R-BL-1/0-E ØdB Amplification Ø 48 Attenuation Horizontal ne/div 1 Vertical, 5VC/20V mV/div 1 Horizontal ns/div Vertical ne/dly 2 Configuration Pulser Level 600V Data Link

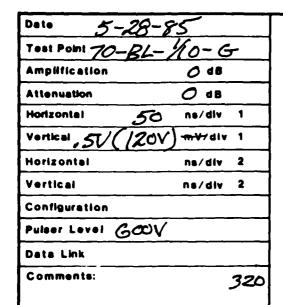
317 4 PLYSES IN 4 SEC.

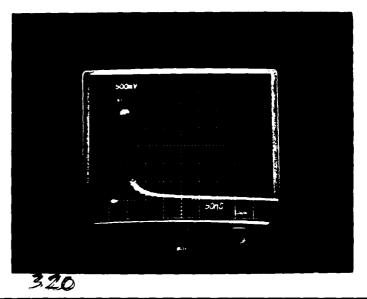
Comments:

Date 5-28-85 Test Point 70-BL-1/0-F Amplification Ø dB Ø 48 Attenuation Horizontal 50 ns/dlv 1200 mY/div Vertical 1 Horizontal ns/dlv 2 Vertical 2 ns/div Configuration Pulser Level 600 Data Link Comments: 318

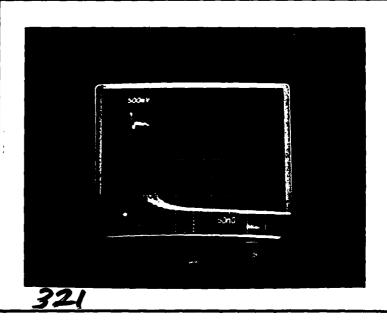


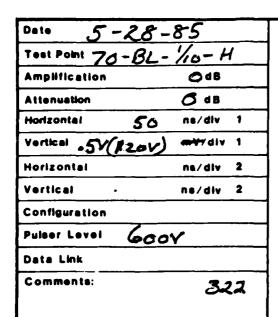
Date 5-28-85		
Test Point TOR-BL-1/10-	-F	
AmpHication O	4B	
Attenuation 0	48	
Horizontal 50 ne/	dly 1	SOORV EV
Vertical .5(120V) m4/	div 1	
Horizontal na/	div 2	
Vertical ns/	div 2	
Configuration		
Pulser Level 6 00V		SUND
Data Link		
Comments:	319	
	. [319

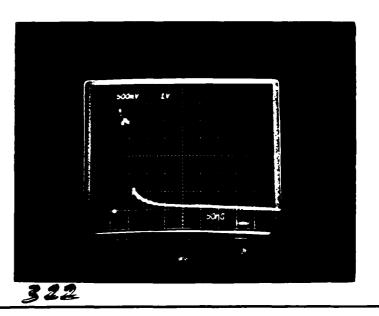


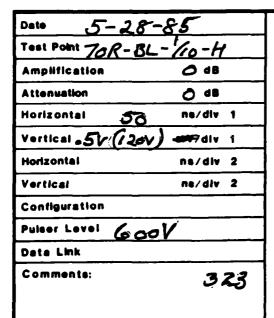


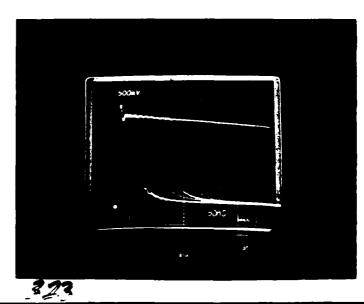
Date 5-	28-85
Test Point ZOR	-BL-1/10-G
Amplification	OdB
Attenuation	∂ d8
Horizontal	50 ne/dlv 1
Vertical .5V()	ZOV) MY/div 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level	600V
Date Link	
Comments:	321

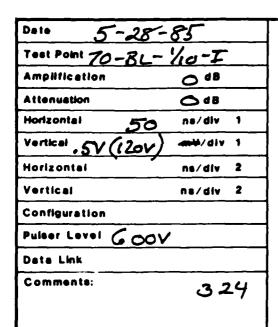


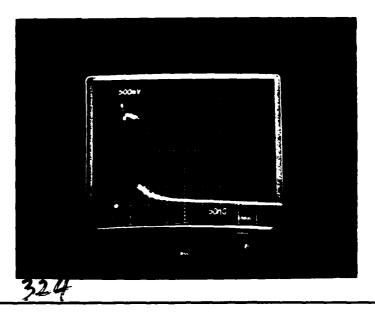




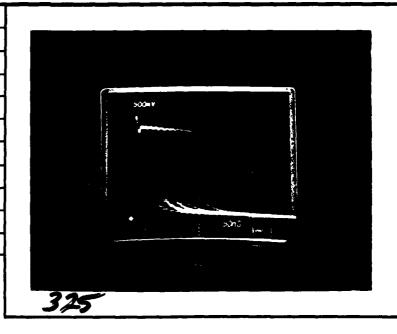




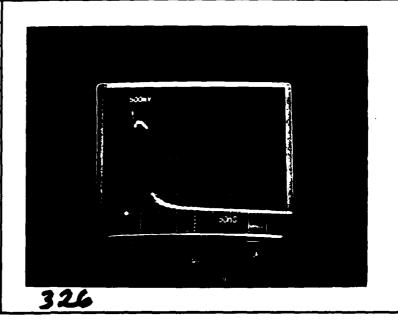




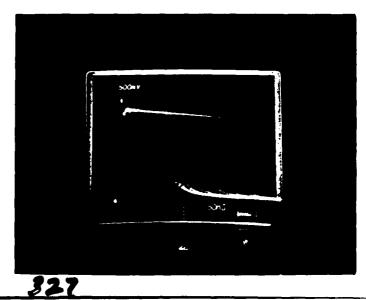
Date 5-28	7-85
Test Point 70R-8	L-1/10-I
AmpHilcation	O dB
Attenuation	O 48
Horizontal 50	ne/dlv 1
Vertical . 51/120	Widly 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Puleer Level GOO	14
Data Link	<i>,</i>
Comments:	325



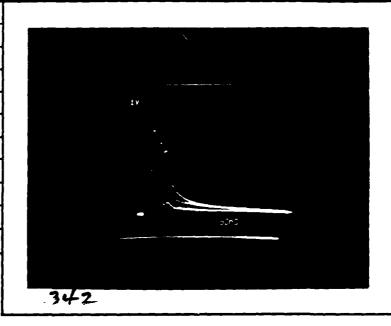
0010 5-2	5-85
Test Point 70-8	1L-/10-J
Amplification	48
Attenuation	d B
Horizontal	ne/dlv 1
Vertical	mV/div 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	326
	526



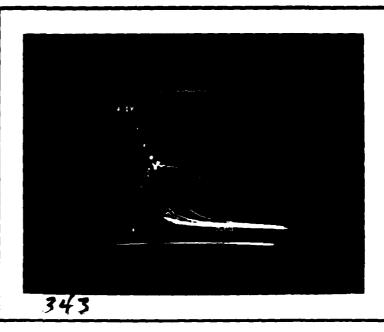
/		
Date 5-2	8-85	
Test Point 70R-BL-10-J		
Amplification	dB	
Attenuation	48	
Horizontal	ne/dlv 1	
Vertical	mV/div 1	
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level		
Data Link		
Comments:	327	
	J~/	

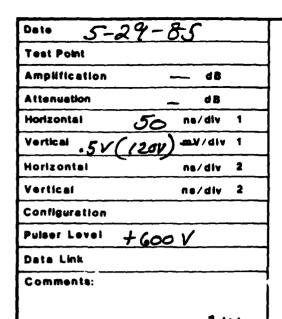


Date 5-2	9-85
Test Point 74.	BL-1/10-\$
Amplification	O48
Attenuation	Ø 48
Horizontal	50 ne/dlv 1
Vertical /.OV(246V)
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 7	600V
Date Link	
Comments:	.342
	•



Date 5-29	-85
Test Point 74R	X-1/10-0
Amplification	048
Attenuation	0 48
Horizontal 5	O ne/div 1
Vertical 1,01/24	OV) mwdly 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level -6	∞V
Data Link	
Comments:	343
	070

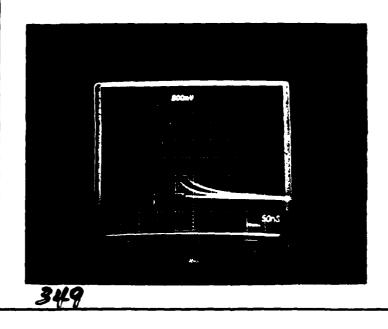




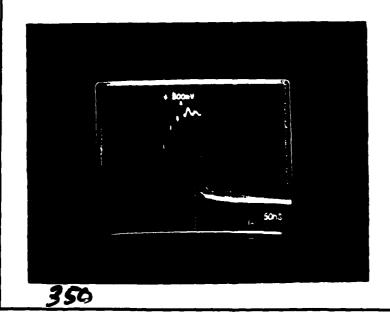
0-500PE CALIBRATION CHECK

Date			
Test Point			
Amplification	48		
Attenuation	48		
Horizontal	ne/div	1	
Vertical	mV/div	1	
Horizontal	ns/dlv	2	
Vertical	ns/dlv	2	
Configuration			
Pulser Level			
Data Link			
Comments:			

5-29-85 Dete Test Point 74-84- 1/0-0 Amplification Attenuation d B ns/dlv Horizontal Vertical mV/dlv 1 Horizontal ne/div 2 Vertical ns/div Configuration Pulser Level + 6001 Data Link #349 Comments:



Date 5-29-85
Test Point 74R-BL-16-6 Amplification 0 ds Attenuation 50 ne/dlv 1 Horizontal SV (120V) mV/dlv 1 Vertical Horizontal ns/dlv 2 Vertical ns/dly 2 Configuration Pulser Level -COV Data Link Comments: # 350 INVERT Scope

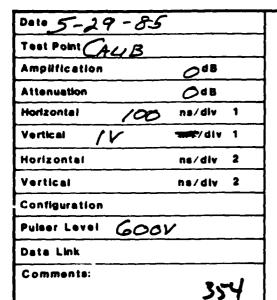


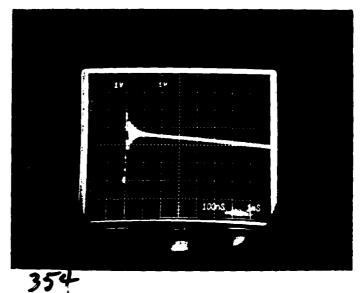
before Afternation was 2.75 divs

after Afternation same input was 3.50 divs

error is 2.09 db on 127.2 to 100

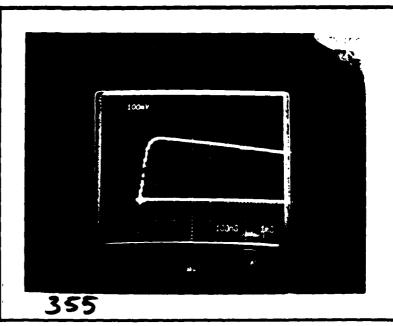
or 100 to 78.6





NO ATTENUATION

Date Test Point O 48 Amplification Attenuation 200 Horizontal ne/dlv 1 Vertical mV/div Horizontal ne/div 2 Vertical ne/div 2 Configuration 600X Pulser Level Date Link Comments: 355

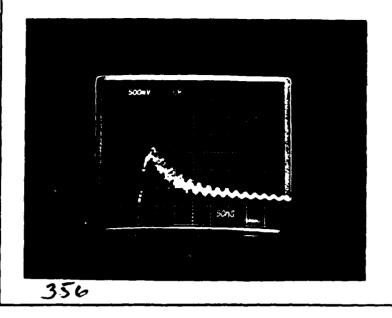


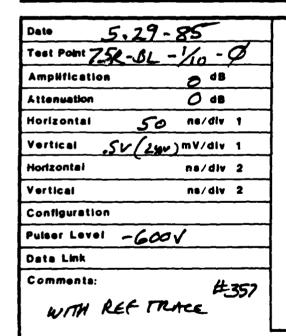
NOTES 1 = 1900 V When

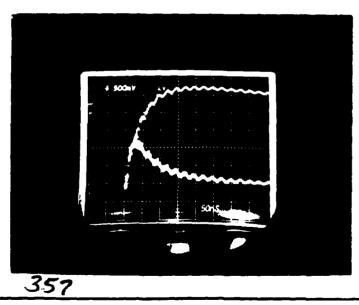
USING 20 DE ATTEN.

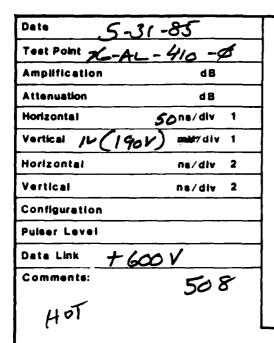
MOV IN SIGNAL LINE TO STOP DAMAGE TO SCOPE. WITH 2006 ATTN-MULTIPLY BY 78.6% For Voltage Inel.

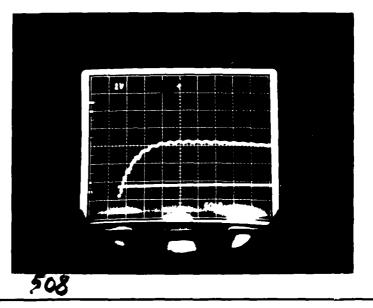
29-85					
-BL-FID-B					
O 48					
O dB					
50 ne/div 1					
V (2404) m47 dly 1					
ne/div 2					
ns/div 2					
Pulser Level + 600V					
# 350					

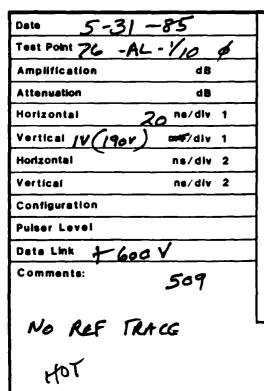


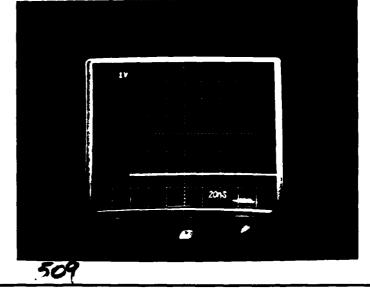




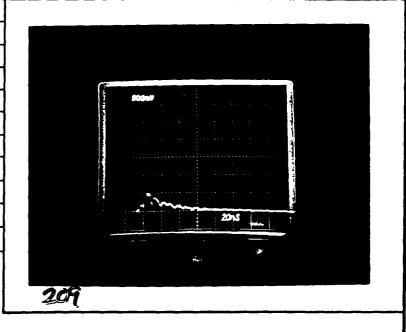




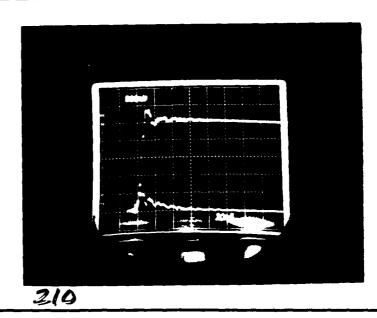




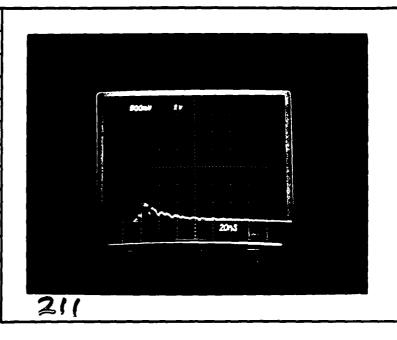
Dote 5-24	-85
Test Point 77 -B	L-1/10-A
Amplification	dB
Attenuation	d B
Horizontal 2	o ne/div 1
	dy) Wydiv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	Soov
Data Link	_
Comments:	209
use Ref	



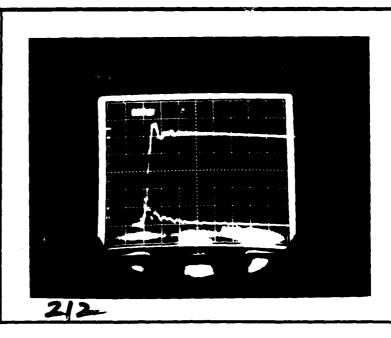
Date 5-20	1-85
Test Point 77R-B	
Amplification	O dB
Attenuation	0 48
Horizontal Z	o ne/dlv 1
Vertical , 5V(120	W) mW/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 60	ov
Data Link	
Comments:	210



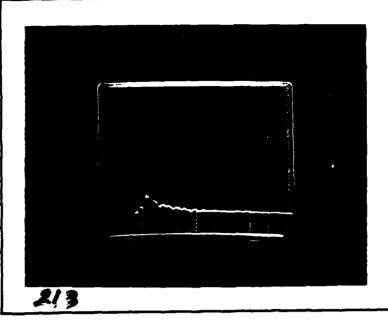
Dete Test Point 77-BL-1/10 -B Amplification Attenuation O dB ne/dlv Horizontal Vertical . 5V Horizontal 2 ns/dlv Vertical ns/dlv Configuration 600V Pulser Level Data Link Comments: RII



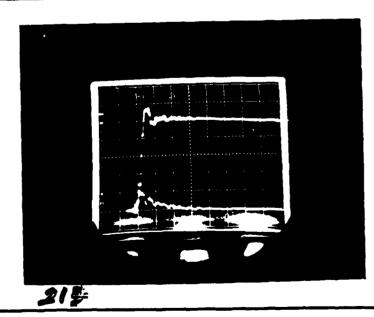
5-24-85 Date Test Point 79 R-BL-1/10-B O dB Amplification O dB Attenuation Horizontal 20 ne/div 1 Vertical mV/div 1 Horizontal ns/div 2 ne/dly 2 Vertical Configuration 600V Pulser Level Data Link Comments: 212



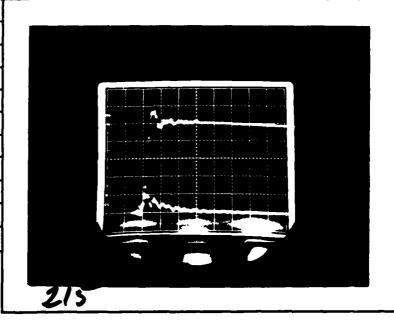
Date 5-28-85 Test Point 77-81-1/10 Amplification **0** dB Attenuation ns/div Horizontal m#/div 2 Horizontal ns/dlv Vertical ns/div Configuration GOOY Pulser Level Data Link No REF PULSE 2/3



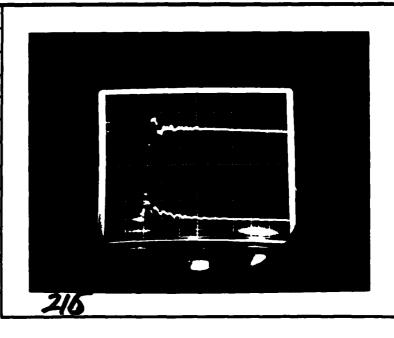
Date 5-28-9	<u>25 </u>	
Test Point 178-64-	1/10-C	
Amplification	OdB	
Attenuation	0 48	
Horizontal 2	O ne/dly	1
Vertical SV(125V) mW/dlv	1
Horizontal	ns/dlv	2
Vertical	ns/div	2
Configuration		
Pulser Level GOOV	·	
Data Link		
Comments:		214



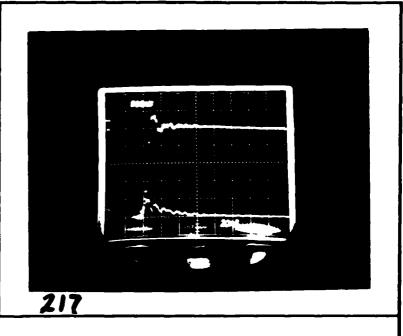
Date Test Point Amplification Attenuation d B Horizontal ns/div mV/dlv Vertical Horizontal ns/dlv 2 **Vertical** ns/div Configuration Pulser Level Data Link Comments: 215



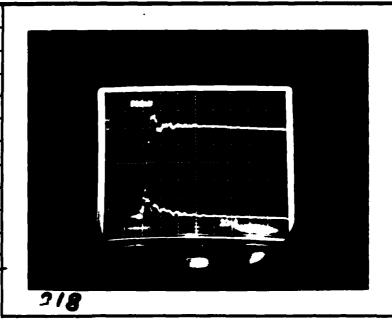
5-28-85 Date Test Point 77R-BL-410-D O dB Amplification 048 Attenuation Horizontal ne/dlv 1 Vertical .5V(120V mW/dlv 1 Horizontal ns/dlv 2 Vertical ne/dly 2 Configuration Pulser Level 600V Data Link 216 Comments:



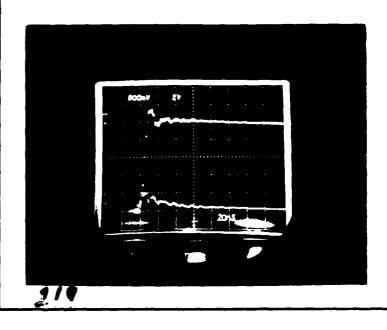
Date Test Point 27-BL-1/10-E Amplification O dB Attenuation 20 ne/div Horizontal Vertical .5V (120V) m¥/dlv 2 Horizontal ns/div Vertical na/div 2 Configuration Pulser Level GOOV Data Link Comments: 217



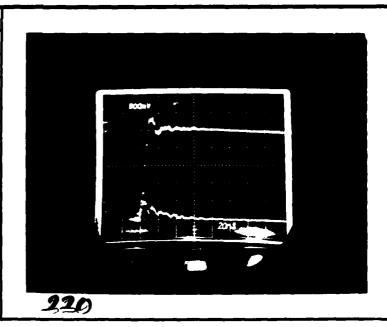
Date Amplification OdB 0 48 Attenuation 20 ne/dly 1 Horizontal att/div 1 Vertical ,5V(120V) Horizontai ns/div 2 Vertical ns/div 2 Configuration 600V Pulser Level Date Link Comments: 218



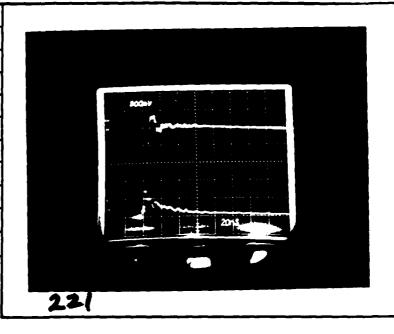
Date 5-28	-85
Test Point 80-84-	-1/10-A
Amplification	6 18
Attenuation	OdB
Horizontal 2	O ne/div 1
Vertical .51(120V)	-mW/div 1
Horizontal	ns/div 2
Vertical	ne/dly 2
Configuration	
Pulser Level Goo	V
Data Link	
Comments:	219



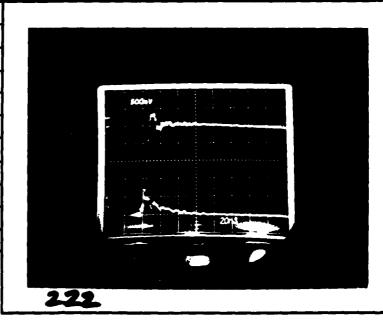
Date 5-	28-85
Test Point 80R	-BL-1/10 A
Amplification	0 45
Attenuation	0 48
Horizontal	20 ma/div 1
Vertical .5V	(20V) m4/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	COV
Data Link	
Comments:	220



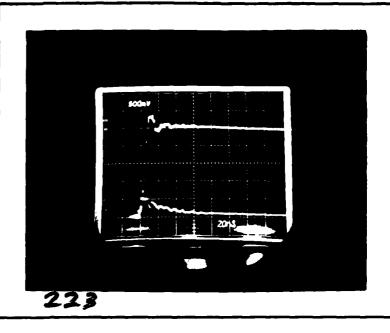
Dete 5-28-85
Test Point 80-81- 1/0-8 Attenuetion Ø 68 ns/div Horizontal Vertical .5V(120V) and/div 1 Horizontal ns/dlv 2 Vertical ne/div Configuration **Pulser Level** 600V Data Link Comments: 221



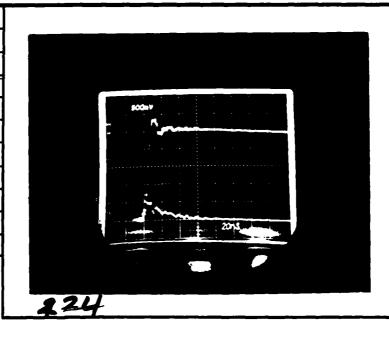
28-85
-BL- 110- R
0 48
Ø dB
20 ne/dlv 1
/201) m/div 1
ns/div 2
ne/div 2
600V
222



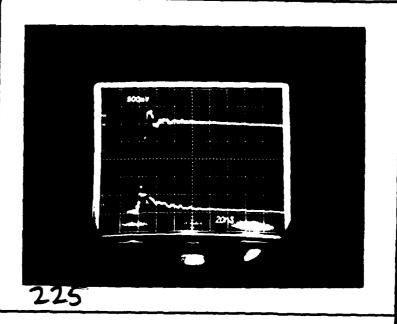
Date 5-28-85		
Test Point 80-BL-	Y10-C	_
Amplification	OdB	
Attenuation	O 48	
Horizontal 20	ns/div	1
Vertical -57 (120 V)	mV/dlv	1
Horizontal	ne/dlv	2
Vertical	ns/dlv	2
Configuration		
Pulser Level 600Y		
Data Link		
Comments:	2	23



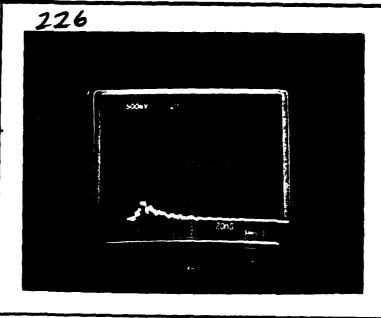
Date 5-28-5	75
Test Point SOR-B	L-1/10C
Amplification	0 dB
Attenuation	O 48
Horizontal 20	ns/div 1
Vertical, 57(120)	merals 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	
Data Link	
Comments:	224



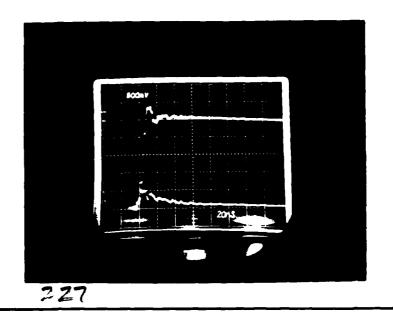
Dete 5-28.	-85
Test Point 80 - BL-	1/10 - D
Amplification	Ø 48
Attenuation	O 48
Horizontal 20	ns/div 1
Vertical .5V (120V)	m#/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level Goov	,
Data Link	
Comments:	225



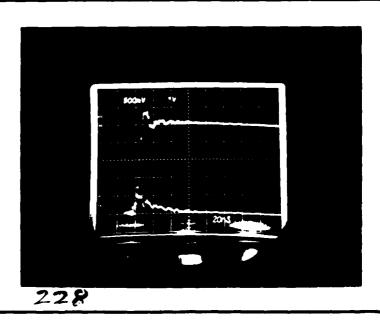
Date 5.3	18-85
Test Point BOR - 1	
Amplification	Ø 4B
Attenuation	O 48
Horizontal	20 ne/div 1
Verticalo5V(1201	v) ™ /div 1 .
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	!
Pulser Level 60	OOY
Data Link	_
Comments:	226
NO REF.	,



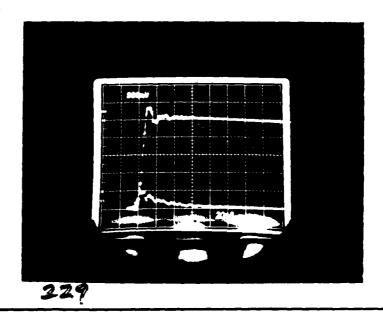
Date 5-28-8		
Test Point 80-BL-	1/10 -E	-
Amplification	0 48	
Attenuation	Ø dB	
Horizontal 20	ne/div	1
Vertical . 5V(126V)	≠/div	1
Horizontal	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:	2	37



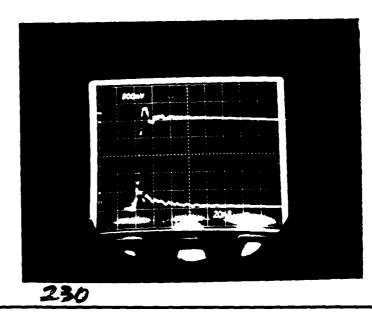
Date 5 -2	8-85
Test Point 80R - 1	
Amplification	048
Attenuation	Ø 48
Horizontal	20 ne/dlv 1
Vertical oSV /13	OV) =4/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	OOV
Data Link	
Comments:	228



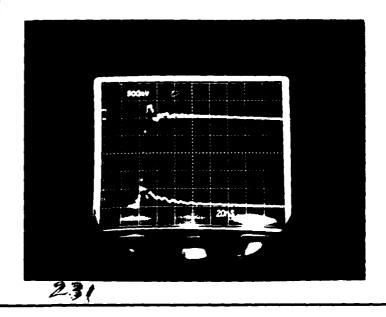
Date 5-28 -	86
Test Point 83 - BL	-1/10-A
Amplification	O 48
Attenuation	O dB
Horizontal 20	na/dlv 1
Vertical .5V(120V)	div 1
Horizontal	na/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6001	<i>y</i>
Data Link	
Comments:	229



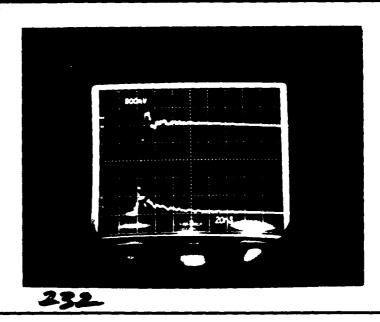
Date 5-28-	85
Test Point 83R -	3L-1/10-A
Amplification	O d B
Attenuation	O 68
Horizontal a	O ne/dlv 1
Vertical . 5/ (120	wardiv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	ov
Data Link	
Comments:	230



Date 5-28-	85
Test Point 83-81-	110-B
Amplification	O 48
Attenuation	O 48
Horizontal 20	ns/dlv 1
Vertical .5V (120V)	n#/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	231

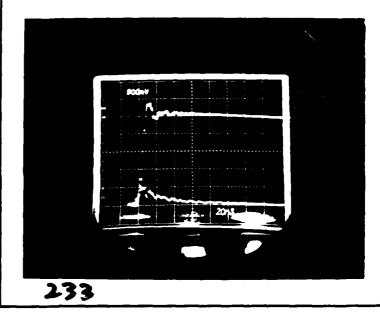


Date 5-2	8-85
Test Point \$5R-	BL-1/10-B
AmpHileation	O 4B
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical .5V(120	W/div 1
Horizontal	na/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	OV
Data Link	
Comments:	232

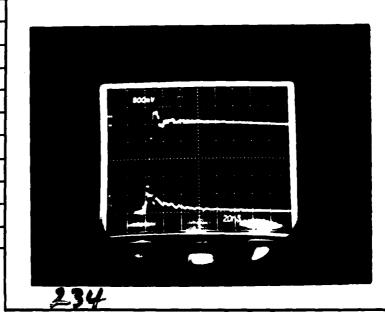


Dale 5-28	
Test Point 83-84	- 1/10 - C
Amplification	O dB
Attenuation	⊘ dB
Horizontal	O ne/div 1
Vertical . 5V (120V) my/div 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	233

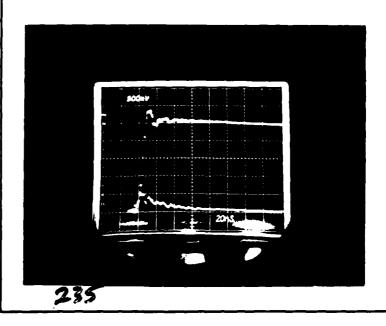
E



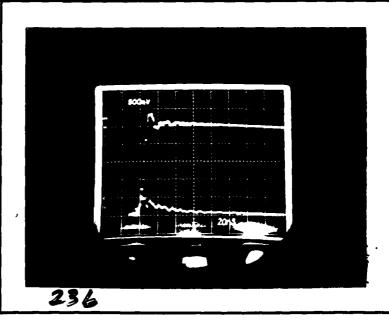
Date 5-	28-85
	R-BL-1/10-C
Amplification	O 48
Attenuation	Ø 48
Horizontal	20 ne/dly 1
Vertical -5V	/201) mm/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 6	000
Date Link	
Comments:	234



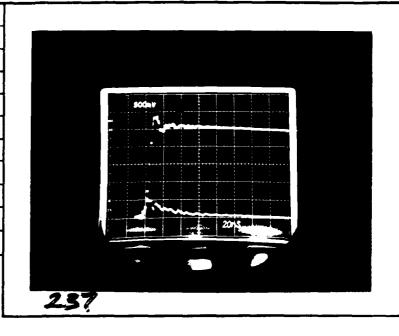
Date 5-28-	85
Test Point 83 -81-	1/10 -D
Amplification	O dB
Attenuation	O 48
Horizontal 20	ns/div 1
Vertical .5V(120V)	-m∓√div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6001	,
Data Link	
Comments:	235
	200



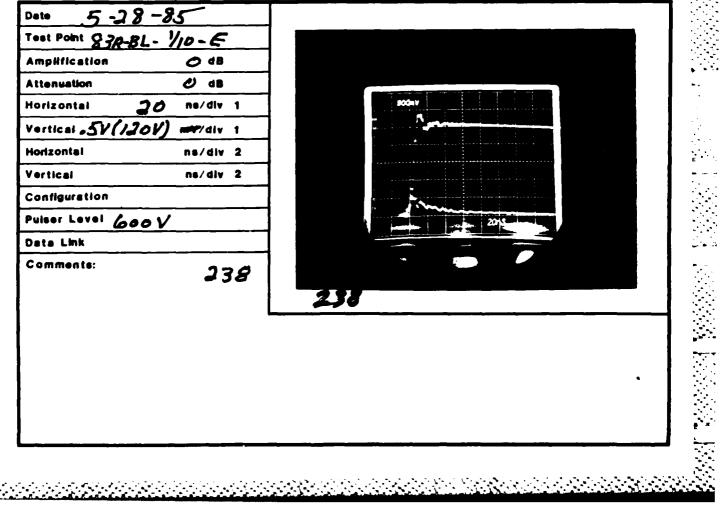
Date 5-26	9-85
Test Point 838-1	3L-1/10-D
Amplification	O dB
Attenuation	O 48
Horizontal 2	O ne/div 1
Vertical -57(126	v) ₩7/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	ov
Data Link	
Comments:	236



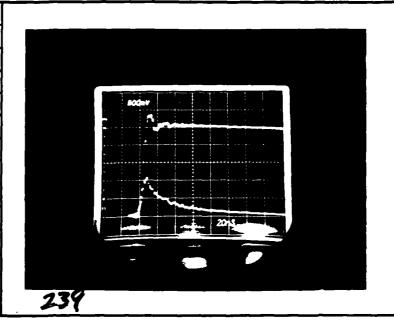
110-E
Ø 4B
O dB
ns/div 1
mm/div 1
ns/div 2
ne/div 2
237



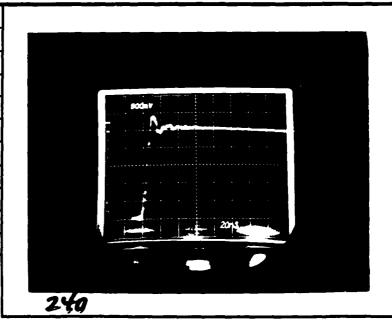
Date 5-28	-95
Test Point 83R-BL	- 110-E
AmpHilcation	O dB
Attenuation	Ø dB
Horizontal	Ø ne/div 1
Vertical .57(120	V) W/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	238



Dele 5-28-	85
Test Point 86-81-	
Amplification	O dB
Attenuation	O 48
Horizontal 20	ns/div 1
Vertical .5V (12 OV	m♥/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	239

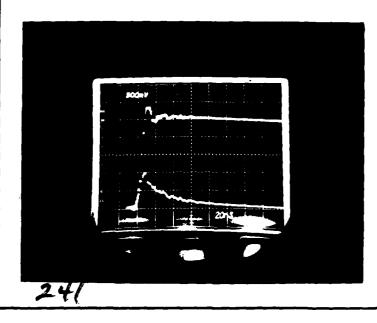


Date 5-28	7-85
Test Point 868-	
Amplification	€) dB
Attenuation	O 48
Horizontal	20 ng/div 1
Vertical .5V (1.	20V) merdir 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	004
Data Link	
Comments:	OHE
	- ,-

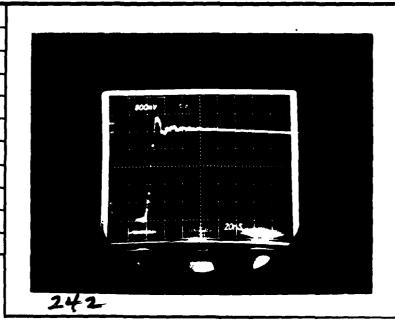


Dele 5-28-8	5	
Test Point 86 - BL-		
Amplification	O dB	
Attenuation	U dB	
Horizontal 20	ne/div	1
Vertical .5V(120V)	#/dlv	1
Horizontai	ns/div	2
Vertical	ns/dlv	2
Configuration		
Pulser Level 6001	/	
Data Link		
Comments:	24	11

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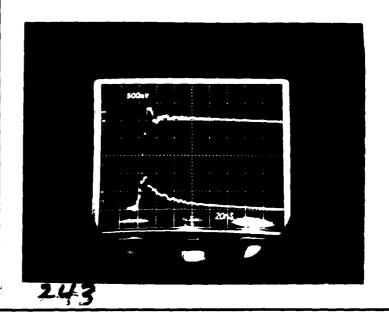


Date 5-28	-85
Test Point 86R-	BL-110-B
AmpHilcation	Ø dB
Attenuation	Ø 48
Horizontal	20 ne/div 1
Vertical .5V[12	(OV) W/div 1
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	oov
Data Link	
Comments:	242

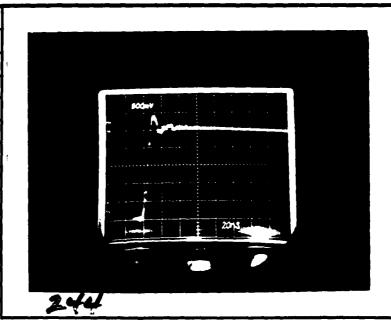


Date 5-28-8	35	
Test Point 86 -BL -	1/10 -	C
AmpHication	O 48	
Attenuation	Ø 48	
Horizontal 20	ns/dlv	1
Vertical .5V(120V)	<i>m</i> ₩/div	1
Horizontal	ns/dlv	2
Vertical	ns/div	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:	2	43

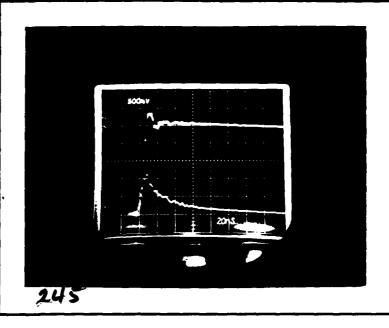
I



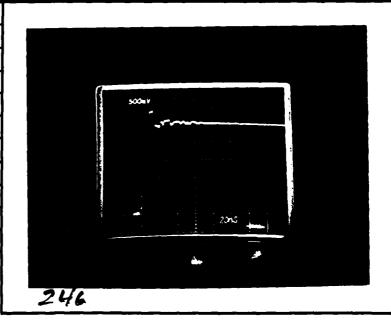
8-85
-84-1/10-C
0 48
O 48
20 ne/dly 1
260) mt/div 1
ns/div 2
ns/div 2
our
244



Date 5-28-8	5	
Test Point 86 -B1-	1/10-D)
Amplification	Ø 48	
Attenuation	O 48	
Horizontal 20	ns/div	1
Vertical . 5V (120V)	m#/dlv	1
Horizontei	ne/dlv	2
Vertical	ne/div	2
Configuration		
Pulser Level GOOV		
Data Link		
Comments:	2	45

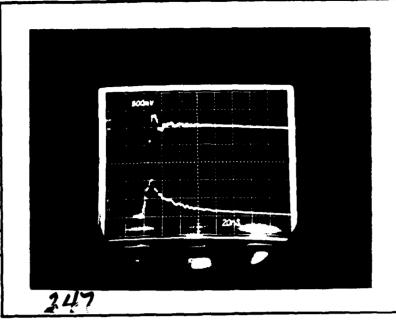


Date 5 ~	28-85
Test Point 86R	-BL -110-D
AmpHilcation	O 48
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical - 5V(1	201) 191/div 1
Horizontal	ns/div 2
Vertical	ns/dly 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	246

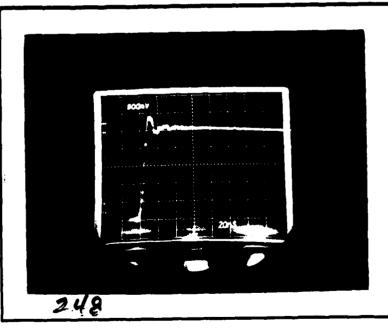


Date 5-28-2	75	
Test Point 86 - BL -	1110-	E
Amplification	0 48	
Attenuation	0 48	
Horizontal 20	ns/dlv	1
Vertical .5V(126V)	/div	1
Horizontei	ns/div	2
Vertical	ne/div	2
Configuration		
Pulser Level 600V		
Data Link		
Comments:	ړ	47

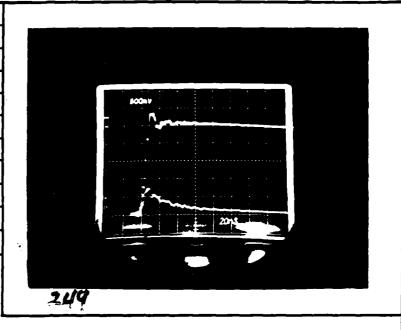
I



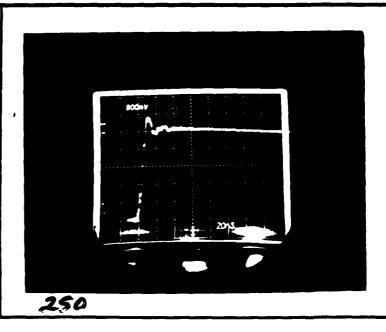
Date 5-2	8-85
	-BL-410-E
Amplification	048
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical ,5V(I	200) m4/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	ocv
Data Link	
Comments:	248

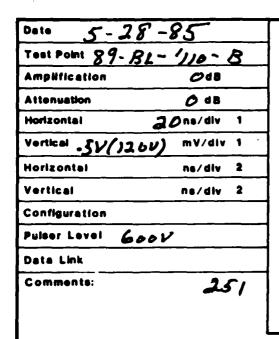


Date 5-28-2	35
Test Point 89-81 - 3	
Amplification	0 48
Attenuation	0 18
Horizontal 20	na/div 1
Vertical SY(12W)	myydiv 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600 V	
Data Link	
Comments:	249

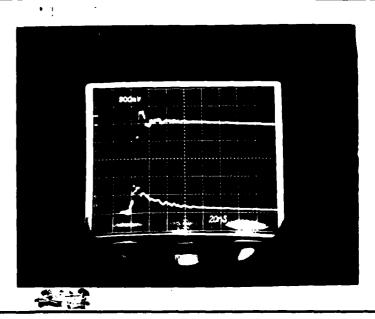


Date 5-28	7-85
Test Point 89R - 8	
AmpHilcation	O 48
Attenuation	Ø 48
Horizontal	20 ne/div 1
Vertical -57/12	0 U) -1/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 64	DEV
Data Link	
Comments:	250

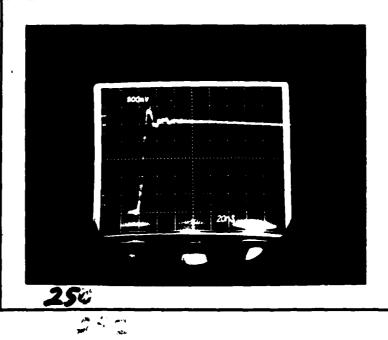




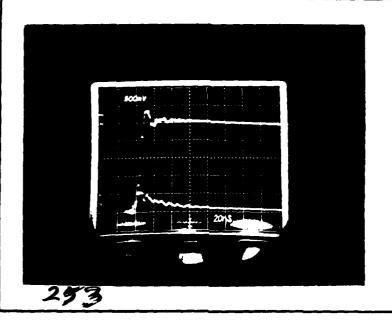
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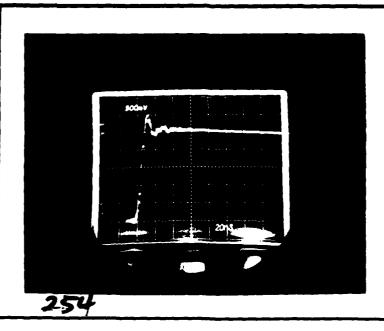
Date 5-28-	85
Test Point 89R-BL	-1/10-B
AmpHfication	O dB
Attenuation	Ø 48
Horizontal 30	ne/dlv 1
Vertical -5V (120V)	div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	252
ł	



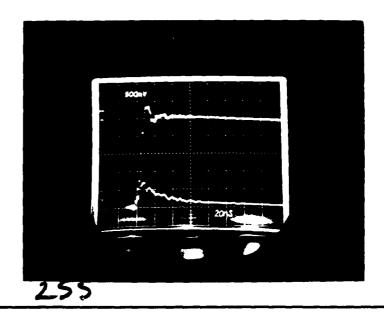
1/0 - C 0 dB 0 dB 0 ne/div 1
O dB
o ne/div 1
) artydiv 1
<i></i>
ne/dlv 2
ne/dly 2
,
253



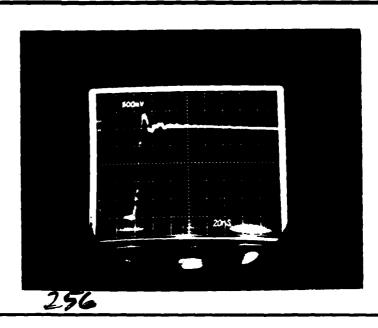
Date 5	28-85
Test Point & 9R	-BL- 1/10-C
AmpHication	O 4B
Attenuation	Ø 48
Horizontai	20 ns/div 1
Vertical .57//.	200) meraly 1
Horizontal	ns/dlv 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 6	06 V
Data Link	
Comments:	254



Dele 5-28	-85
Test Point 89-84-	1/10- D
Amplification	Ø 48
Attenuation	Ø 48
Horizontal 20	ne/div 1
Vertical .5 (120V)	me/div 1
Horizontal	ns/div 2
Vertical	ns/dly 2
Configuration	
Pulser Level 600V	
Dete Link	
Comments:	255



Date 5 -	28-85
Test Point 89R	-BL - 140- D
Amplification	Ŏ dB
Attenuation	O 48
Horizontal	20 ne/div 1
Vertical .5V()	20 V)
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600 V	
Data Link	
Comments:	256

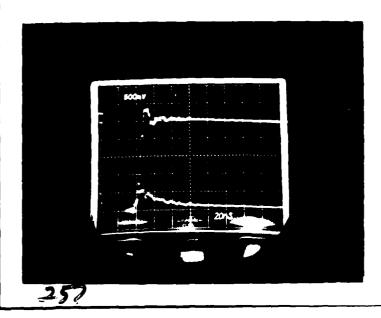


Date 5-28		
Test Point 89-8L-1/10- E		
Amplification	0 dB	
Attenuation	<i>O</i> 4B	
Horizontal	20 ne/div 1	
Vertical .5V(12	OV) MY div 1	
Horizontal	ns/div 2	
Vertical	ne/dly 2	
Configuration		
Pulser Level Go	ov	
Data Link		
Comments:	257	

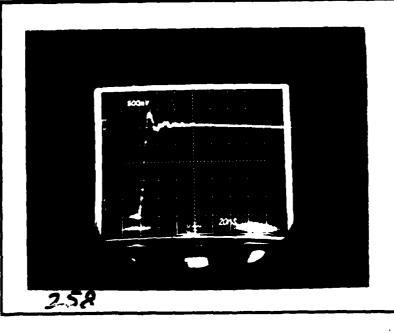
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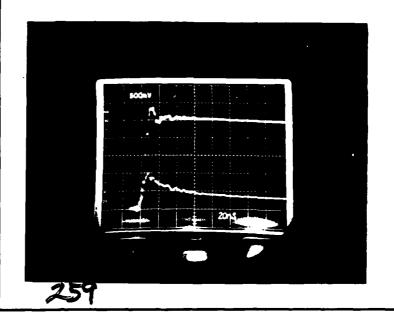
I



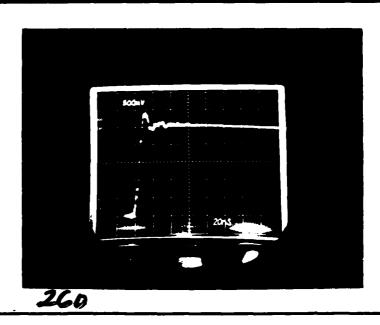
Date 5-2	19-85
Test Point 898 -	8L- 110-E
Amplification	OdB
Attenuation	0 48
Horizontal	20 ne/dly 1
Vertical .5V ()	Jou)maydiv 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 60	96 V
Data Link	
Comments:	258
	40-



Date 5-28-8	75
Test Point 92 - 84 -	110 - A
Amplification	OdB
Attenuation	() dB
Horizontal 20	ne/dlv 1
Vertical 5V() 2cv)	m♥/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 606V	
Data Link	
Comments:	259

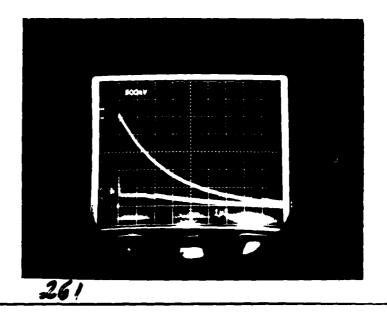


Date 5-28	-85	
Test Point 9 28 - 84 - 1/10 - A		
AmpHication	O dB	
Attenuation	O 48	
Horizontal 2	o ne/dlv 1	
Vertical SV(120))) m4/dlv 1	
Horizontal	ne/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600	V	
Data Link		
Comments:	260	

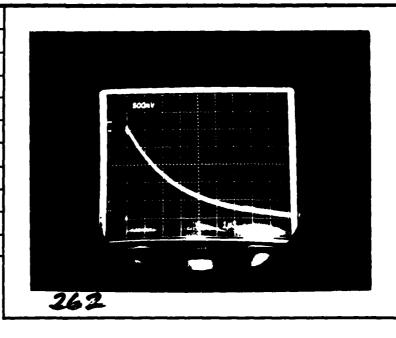


5-28-85 Date Test Point 92-12-1/10-8 OdB Amplification Ø dB Attenuation æ/div Horizontal 1110 Vertical .5V(120V) pp/div 1 Horizontal ne/div Vertical ns/dly Configuration Pulser Level GooV Data Link Comments: 24

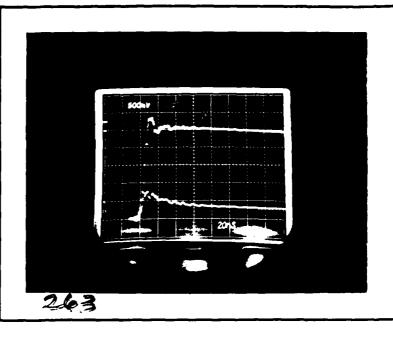
/sis/Div



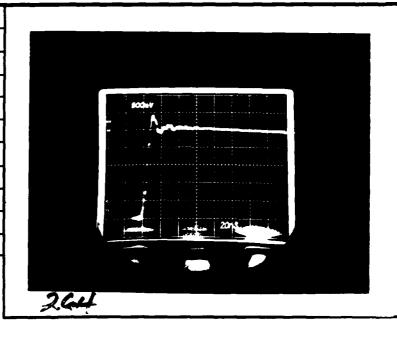
5-28-85 Date Test Point 92R -BL- 110 -B OdB Amplification Ø 48 Attenuation -mo/div 1 Horizontal Vertical .5V(120V) my/div 1 Horizontal ns/div 2 Vertical ns/dlv 2 Configuration Pulser Level 600 V Data Link Comments: 262 /us/Div



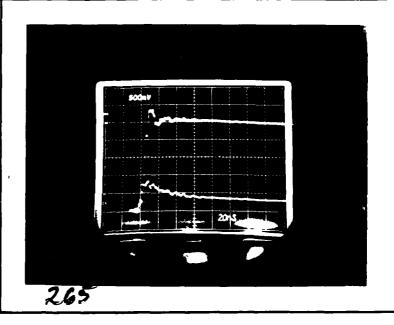
Date 5-28-	85
Test Point 92-BL-	
AmpHication	ØdB
Attenuation	O dB
Horizontal 20	ne/dlv 1
Vertical .5 (120V)	m₹/div 1
Horizontal	ns/dlv 2
Vertical	ns/dlv 2
Configuration	
Pulser Level 600	
Data Link	
Comments:	263
	-
20ND/DIV	



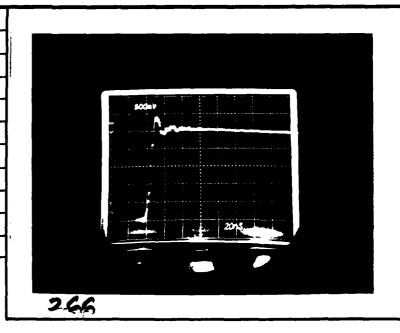
Date 5-28	-25
Test Point 92R - B	12-10-C
Amplification	O 48
Attenuation	O dB
	O ne/div 1
Vertical . 5V (120	υ) m= /div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	264



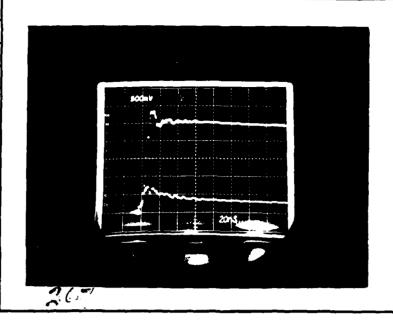
Date 5-28-	85
Test Point 92 -81	-1/10-D
Amplification	<i>O</i> 48
Attenuation	OdB
Horizontal	70 ns/div 1
vertical .5V(12cv) mW/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level Goc	/
Deta Link	
Comments:	265
•	



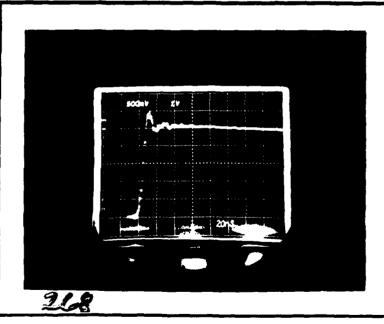
Date 5-28-8	5
Test Point 92R - BL -	110-D
Amplification	O 48
Attenuation	O 48
Horizontal 20	ne/div 1
Vertical .5V(120V)	mW/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600V	
Date Link	
Comments:	266



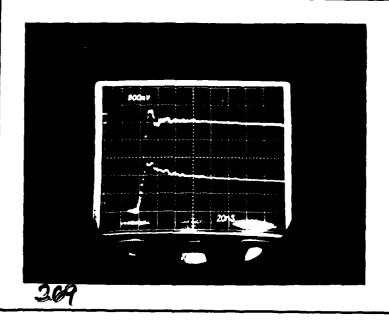
Dete 5-2	18-85
Test Point 92-	3L-1110-E
Amplification	0 dB
Attenuation	Ø dB
Horizontal	20 ne/dlv 1
Vertical -5 V[126	W/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	OOV
Data Link	
Comments:	267



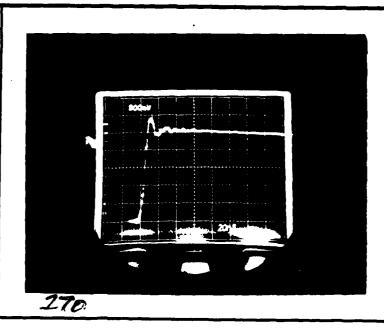
Date 5 -2	8-85
Test Point 91R -	BL - 1/10 - E
AmpHilcation	OdB
Attenuation	O dB
Horizontal 2	O ne/div 1
Vertical .5V//20	(U) ∅ /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	V
Data Link	
Comments:	268



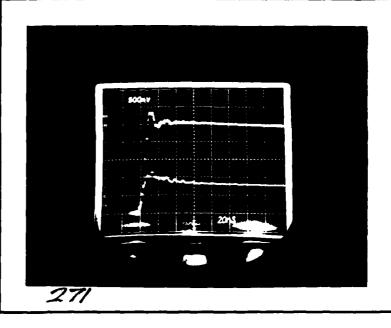
Date 5-28-	85	
Test Point 98-81	1110-A	
Amplification	0 48	
Attenuation	O 48	
Horizontal 20	ns/div 1	
Vertical .5V(120V)	mV/dlv 1	
Horizontei	ns/dlv 2	
Vertical	ne/div 2	
Configuration		
Pulser Level 600	V	
Data Link		
Comments:	26	9
LCE 130A	a -	•



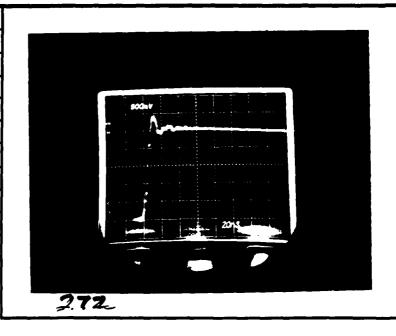
Date 5 -	28-85
	-BL-1/10-A
Amplification	Ø dB
Attenuation	ø dB
Horizontal	20 ne/div 1
Vertical . 5V(1	26V) merair 1
Horizontal	ne/dlv 2
Vertical	ne/div 2
Configuration	
Pulser Level &	064
Data Link	
Comments:	270
LCE 130A	



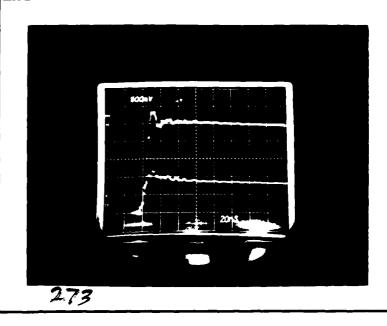
Dele 5-28-8	ड	
Test Point 98-81-	1/10-B	
Amplification	O dB	
Attenuation	Ø dB	
Horizontal 20	ne/div 1	
Vertical . 5V(1200)	m¥/dlv 1	
Horizontal	ns/dlv 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600 Y		
Data Link		
Comments:	271	



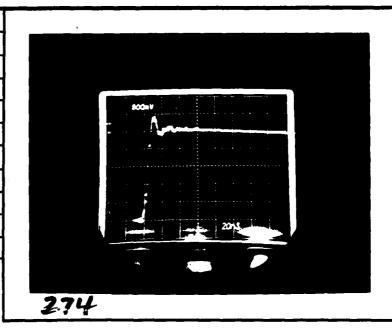
7-85
L-1/10-B
ØdB
O dB
O ne/div 1
/) m4/div 1
ns/div 2
ns/div 2
V
272



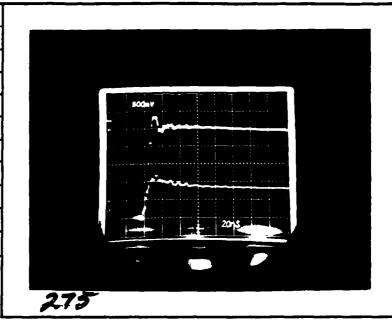
Dete 5-28-	-85
Test Point 99 - 81	-1/10-C
Amplification	O48
Attenuation	Ø dB
Horizontal 20	ns/div 1
Vertical .5V(120V)	mir/div 1
Horizontal	ns/div 2
Vertical	ne/dlv 2
Configuration	
Pulser Level 600Y	
Data Link	
Comments:	273



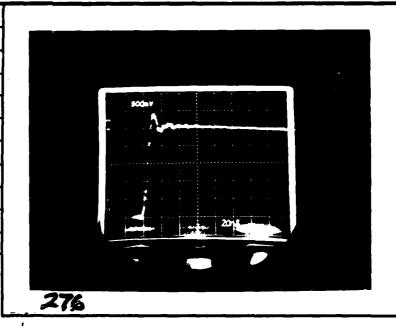
-85
-1/10-C
O 48
O 48
ne/div 1
gW/dlv 1
ns/div 2
ne/div 2
<i>)</i>
274



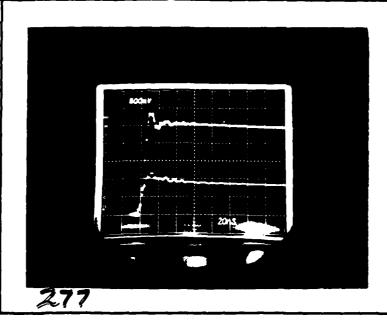
9-85 -110-D 0 dB 0 dB 0 ne/div 1
0 d8 0 d8 0 ne/div 1
) ne/div 1
) _##/div 1
ns/div 2
ns/div 2
V
275



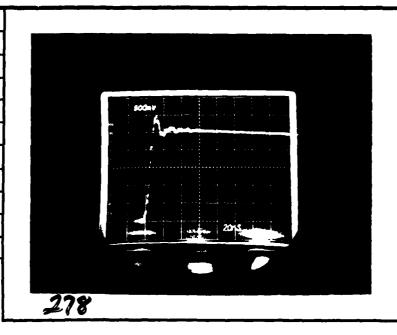
Date 5-28	-85
Test Point 98R- BL	-1110-D
Amplification	O dB
Attenuation	O dB
Horizontal 20	ne/div 1
Vertical .5V(126V)	mW/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level 600V	,
Data Link	
Comments:	276



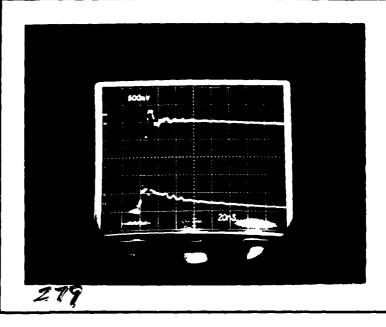
Date 5-28-	85
Test Point 98 - BL -	110 - E
AmpHication	Ø dB
Attenuation	O 48
Horizontal 30	ns/div 1
Vertical . 57 (1200)	mV/dlv 1
Horizontal	ne/div 2
Vertical	ns/dly 2
Configuration	
Pulser Level 6001	/
Data Link	
Comments:	277



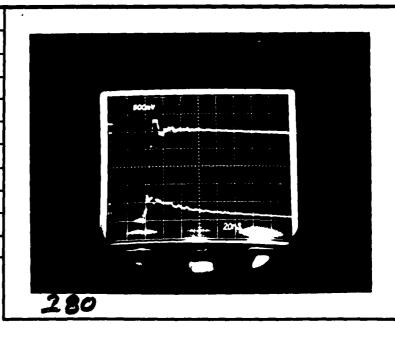
Date 5-	28-85
Test Point 98R -	BL-110-E
Amplification	0 48
Attenuation	O 48
Horizontal	O ne/dlv 1
Vertical ,5V(13	ev) W/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 64	20 V
Data Link	
Comments:	278
! 	



Date 5-28-	85
Test Point 102 - BL	_
AmpHication	0 18
Attenuation	Ø 48
Horizontal 20	ne/div 1
Vertical SY/120V)	m¥/div 1
Horizontal	ns/div 2
Vertical	ne/dlv 2
Configuration	
Pulser Level 600V	
Data Link	
Comments:	279
Comments:	279

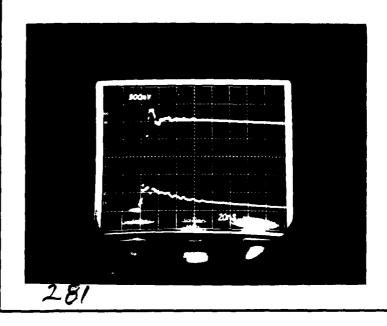


Date 5	-28 -85
Test Point 10	1R-BL-110-A
AmpHfication	O 48
Attenuation	Ø 48
Horizontal	30 ne/div 1
Vertical .5V	(126V) MWdIV 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level	600 V
Date Link	
Comments:	280

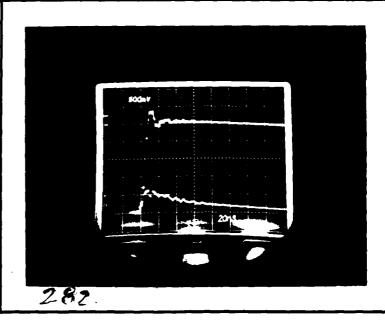


Date 5-	28-85	
	- BL - 1/10 -	B
Amplification	O 48	
Attenuation	O dB	
Horizontal	20 ns/div	1
Vertical . 5V()	ZOU) merdir	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level (ioo v	
Data Link	· 	
Comments:	28	7

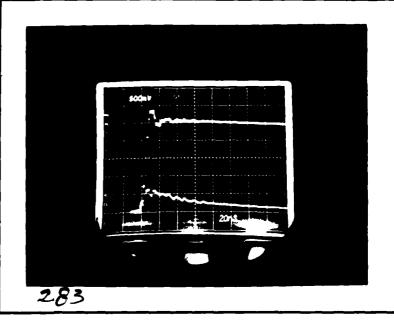
この の 一貫のいのなななど



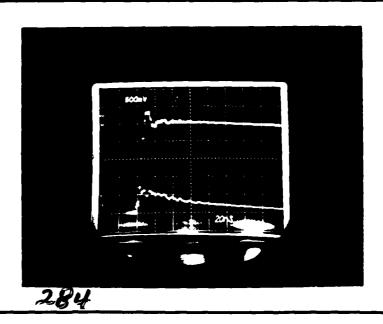
Date 5-28-	-85	
Test Point /02R - 8L - 1/0-8		
Amplification	O 48	
Attenuation	O 48	
Horizontal 2	na/div 1	
Vertical .5V(120) n ov div 1	
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600	V	
Data Link		
Comments:	282	



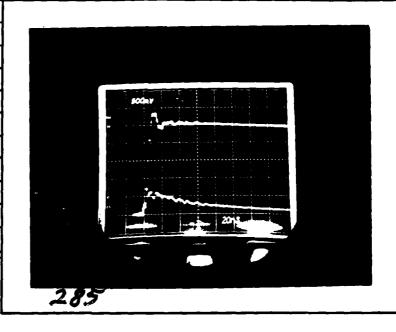
Date 5-2	28 - 85
Test Point /02.	-BL-110-C
Amplification	O 48
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical .5V/1.	200) mV/dlv 1
Horizontal	ns/div 2
Vertical	na/div 2
Configuration	
Pulser Level 6	00 V
Deta Link	
Comments:	283



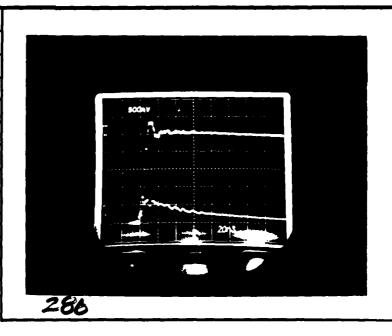
Date 5-28-8	35	
Test Point 10 ZR - BL - 1/10 - C		
Amplification	OdB	
Attenuation	O 48	
Horizontal 20	ne/dlv 1	
Vertical , 5V (1200)	W/div 1	
Horizontal	ne/div 2	
Vertical	ne/div 2	
Configuration		
Pulser Level 600V	′	
Date Link		
Comments:	284	



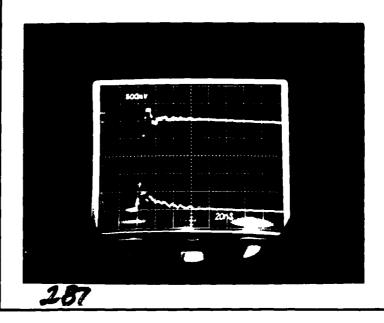
5-28-85 Date Test Point 102 - BL - 1/10-D
Amplification C dB 0 48 Attenuation 20 ne/div Horizontal Vertical .5V(12CV) mar/div 1 Horizontal ns/div Vertical 2 ns/dlv Configuration Pulser Level 600V Data Link 285 Comments:



Date 5	28 85	
	-28-25	
Test Point /02	R- BH - 10-D	
Amplification	OdB	
Attenuation	O 48	
Horizontal	20 ne/dlv 1	
Vertical SV(1	20V) / div 1	
Horizontal	na/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level 600 ¥		
Date Link		
Comments:	276	
	-	

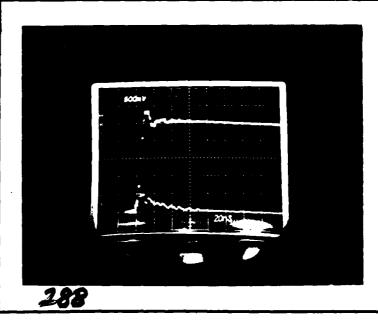


Date 5-28-2	55
Test Point 103- BL-	1110-A
Amplification	O 48
Attenuation	O dB
Horizontal 20	ne/div 1
Vertical .5v (126v)	mV/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600	
Data Link	
Comments:	287



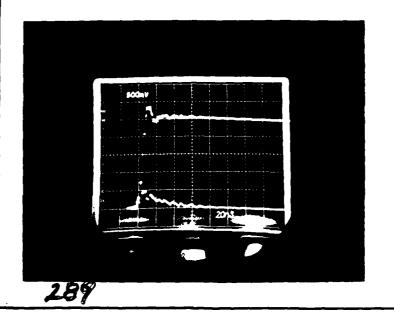
Date 5-	28-85
	BL -1/10 - A
Amplification	O 4B
Attenuation	Ø dB
Horizontal	20 ne/dlv 1
Vertical SV(126V) max/div 1	
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level Ga	OOV
Data Link	
Comments:	288

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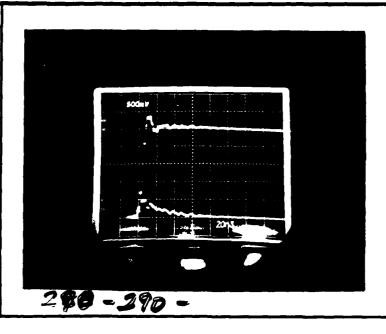


Dele 5-28-	85
Dete 5-28-1 Test Point 103-BL-	Via-B
Amplification	O 48
Attenuation	O dB
Horizontal 20	ne/div 1
Vertical .5V(120V)	mW/div 1
Horizontal	ns/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level GOOY	
Data Link	
Comments:	289

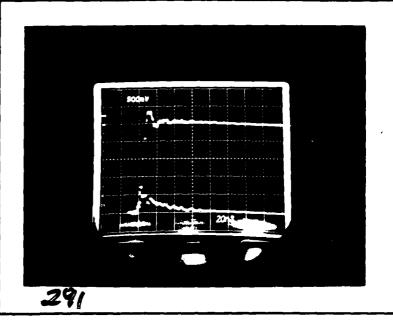
のなる。

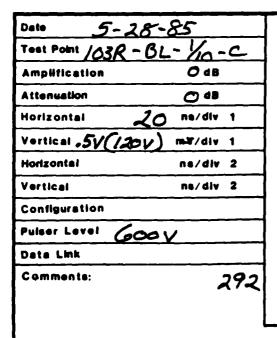


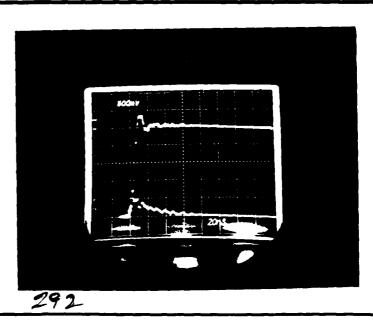
Date 5-28	3-85	
Test Point /03R-BL-110-B		
Amplification	Ø dB	
Attenuation	O 48	
Horizontal	Zo ne/dly 1	
Vertical .5V (120V) my/div 1		
Horizontal	ne/dly 2	
Vertical	ns/div 2	
Configuration		
Pulser Level GOOY		
Data Link		
Comments:	290	



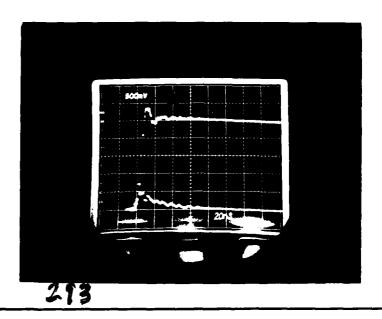
5-28-85 Dete 103-BL-1/10-C Test Point Amplification OdB OdB Attenuation 20 ns/div Horizontal vertical .5V(120V) m¥/div Horizontai ne/dlv Vertical ns/div Configuration Pulser Level GOOV Data Link Comments: 291



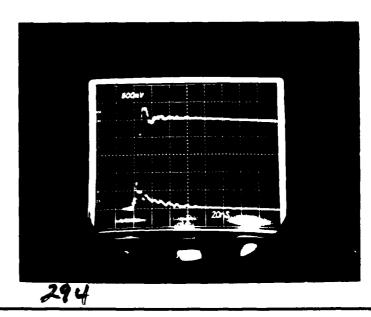




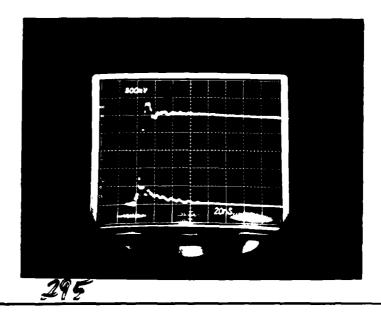
Date 5-28-85 Test Point 103-BL-110-D Amplification OdB O 48 Attenuation na/div 20 Horizontal Vertical _5V(120V) mV/div Horizontal ns/div 2 Vertical ns/dlv 2 Configuration Pulser Level 600V Data Link 293 Comments:



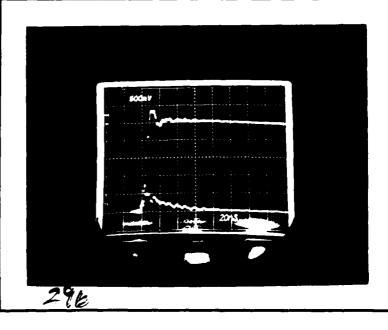
Date 5-28	-85
Test Point 103R - B	
Amplification	O dB
Attenuation	O 48
Horizontal 20	ne/dlv 1
Vertical .5V(120V)	mV/div 1
Horizontal	ns/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 6001	/
Data Link	
Comments:	294



Date 5-28-	£5
Test Point 10.3-81	1-1/10-E
Amplification	O 48
Attenuation	OdB
Horizontal 20	o ne/div 1
Vertical .5V (120	W) m4/div 1
Horizontal	ns/div 2
Vertical	ns/dly 2
Configuration	
Pulser Level 60	oV
Deta Link	
Comments:	295

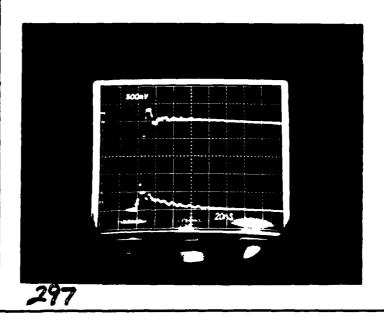


Date 5-28	}-85
Test Point 103R-	BL-1/10-E
Amplification	Ø dB
Attenuation	O 48
Horizontal	20 ne/dlv 1
Vertical ~5V(120	OY) m♥/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 60	20 V
Data Link	
Comments:	296
	• -

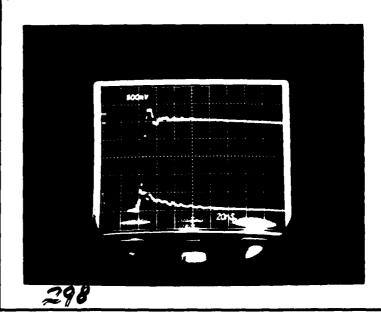


Dele 5-28-8	85 -	
Test Point 106-BL-	110-1	A
Amplification	0 dB	
Attenuation	Ø dB	
Horizontal 20	ns/div	1
Vertical .5V(120V)	m¥/dlv	1
Horizontal	ne/div	2
Vertical	ns/div	2
Configuration		
Pulser Level GOOV		
Data Link		
Comments:	2	97
	•	• 1

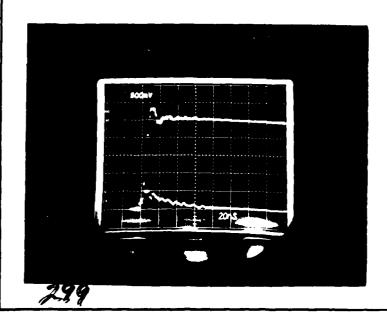
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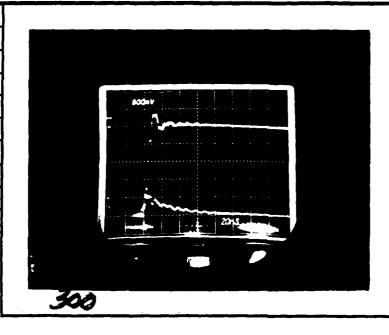
Date 5-28	5-65
Test Point JOGR -	
Amplification	Ø 4B
Attenuation	0 48
Horizontal	20 ne/dlv 1
Vertical .57 12	OV) #W/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level GO	OV
Data Link	
Comments:	298
	Ĭ



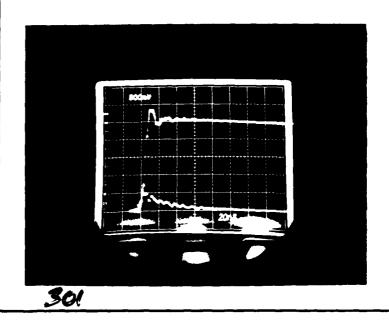
Date 5-28-85
Test Point 106-6L-160-B
Amplification Od8 OdB Attenuation ns/div Horizontal 20 Vertical .5V (120V) mV/dlv 1 Horizontal ne/div 2 Vertical ns/div Configuration Pulser Level GOOV Data Link Comments: 299



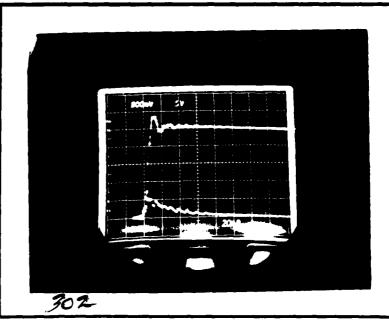
Date 5-28	7-85
Test Point 106R-	
Amplification	O dB
Attenuation	Ø 48
Horizontal	20 ne/dlv 1
Vertical .5V(12	OV)WV/dIV 1
Horizontai	ns/div 2
Vertical	ne/dlv 2
Configuration	
Pulser Level 60	ov
Data Link	
Comments:	300



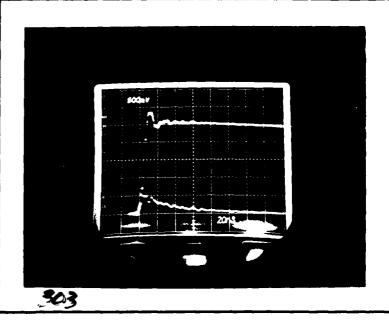
Dale 5-28-8	75
Test Point /06-BL-	1/0-C
Amplification	O48
Attenuation	OdB
Horizontal 20	ns/dlv 1
Vertical .5V(120V)	mW/div 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 600 V	,
Data Link	
Comments:	301



Date 5-28.	-8 <i>5</i>
Test Point 106R-81	
AmpHication	O 4B
Attenuation	O 48
Horizontal 20	ne/dlv 1
Vertical 5V (120V) ##/div 1
Horizontal	ne/div 2
Vertical	ns/dlv 2
Configuration	
Pulser Level God	oV .
Data Link	
Comments:	302

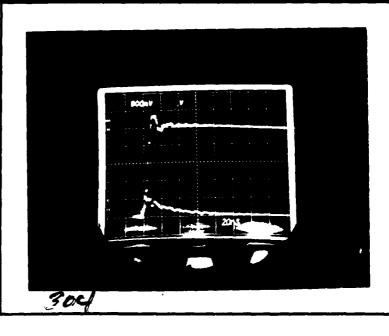


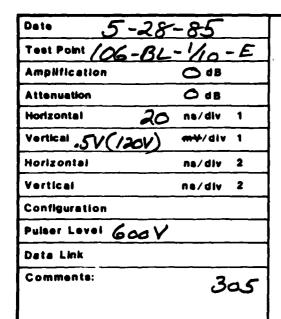
Date 5-28.	-85
Test Point 106 - 8	3L-1/10-D
Amplification	OdB
Attenuation	OdB
Horizontal	20 ne/dlv 1
Vertical -5V (120	V) #4/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level Go	o √
Data Link	
Comments:	303

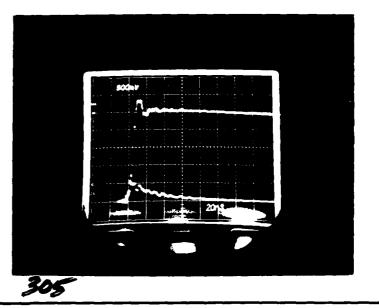


Date 5-2	8-85
	-BL-1/10-D
Amplification	Ø48
Attenuation	Ø48
Horizontal	20 ne/dlv 1
Vertical .5V(1	20V) mwdiv 1
Horizontal	ne/dlv 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	COV
Data Link	
Comments:	304

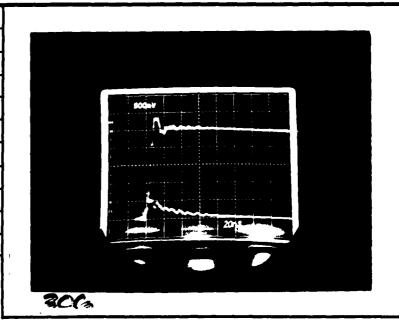
(<u>•</u>



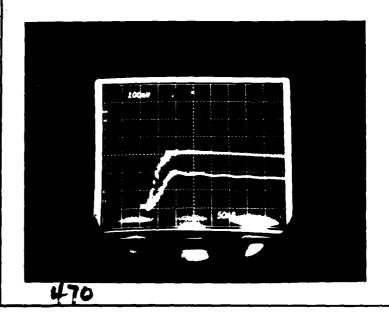




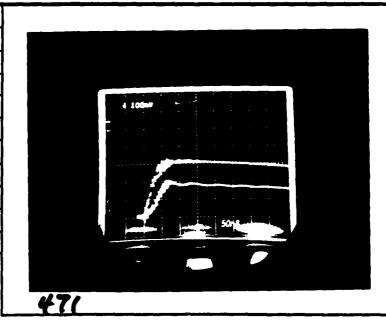
Date 5	-28-85
Test Point 106	R-BL-1/10-E
Amplification	OdB
Attenuation	6 d8
Horizontal	20 ne/dlv 1
Vertical .5V((1204) my/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level 6	COV
Data Link	
Comments:	306



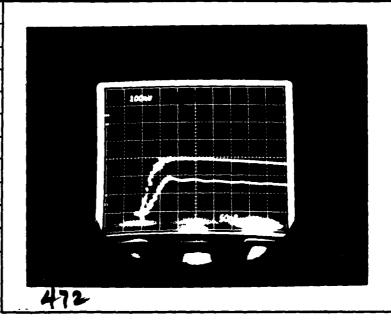
Data 5-3	0-85
Test Point 109-A	L-1/10-\$
Amplification	dB
Attenuation	d8
Horizontal	ne/div 1
Vertical	mV/dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
onfiguration	
Pulser Level	6001
Data Link	
Comments:	470
LEMON	710
10	
PULSE ON	NEUT."



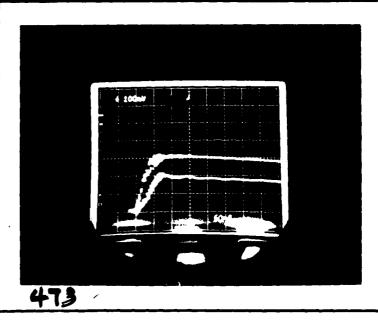
Date 5-	30-85
Test Point 109R	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level(600V
Data Link	
Comments:	471
"	• • • •
PULSE ON'	"NEUT"



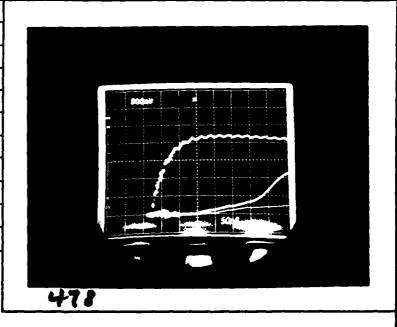
Date 5-30-85 Test Point 109-AL-110-\$ O dB **Amplification** 20 dB Attenuation Horizontal ns/div Vertical mV/dlv 1 Horizontal 2 ns/div Vertical ns/div Configuration Pulser Level + 600 V Data Link Comments: PLUSE ON HOT



Date 5-3	o-85	
Test Point 109R -		
Amplification	OdB	
Attenuation	20 48	
Horizontal 2	ne/dlv 1	
Vertical .// (19	OV) me/div 1	
Horizontal	ns/div 2	
Vertical	ne/div 2	
Configuration		
Pulser Level -600 V		
Data Link		
Comments:	473	
Puse o	. •	

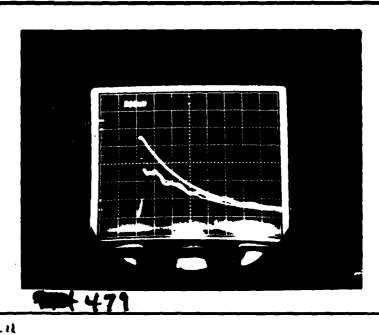


5-31-85 Date 110-AL-110-B Test Point Amplification dB Attenuation dB ns/dlv Horizontal Vertical m¥/dlv Horizontal ns/dlv Vertical ns/div Configuration Pulser Level + 600 V Data Link 478 Comments: "COMMON LEAD"

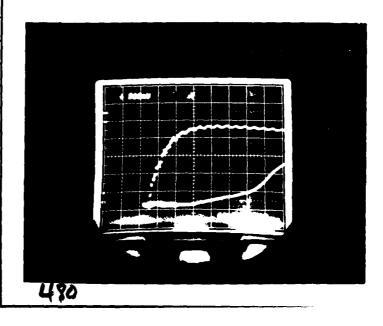


REPEAT Shot (479) AT IM see / OIN

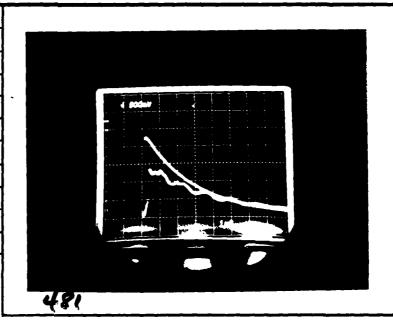
5-31-85 Date Test Point 110 -AL-1/10-0 **Amplification** dB Attenuation dB Horizontal LU ms/dlv **Vertical** m∀/div 1 Horizontal ns/div Vertical ne/div Configuration Puiser Level 6001 Data Link Comments: COMMON LEAD" "REPEAT ABOVE TEST"

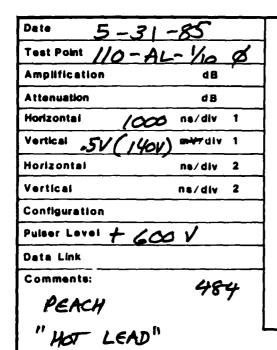


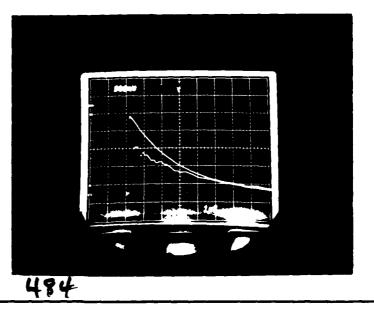
Date 5-31-85
Test Point //OR-AL-1/10-0 Amplification dB Attenuation dB Horizontal ns/dlv 50 Vertical M/dlv 1 Horizontal 2 ns/dlv Vertical ns/div Configuration Pulser Level ~ 600 V Data Link Comments: 480 "common LEAD"



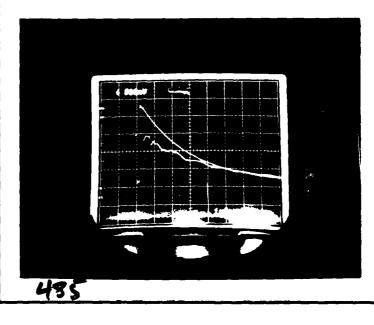
5 01 PC		
Date 5-31-85		
Test Point 1/OR -AL-	10-0	
Amplification	dB	
Attenuation	4B	
Horizontal 1000	ns/dlv 1	
Vertical ,5 (146)	m4/div 1	
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level -	-600V	
Data Link		
Comments:	481	
"Common LEAD"		



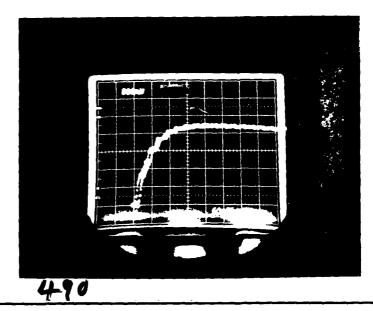




- P -	-
Date 5-31-	<u>お</u>
Test Point 110R -AL	1/10-O
Amplification	dB
Attenuation	d S
Horizontal 1000	ns/dlv 1
Vertical ,5v (140)	m¥7div 1
Horizontal	ns/div 2
Vertical	ne/div 2
Configuration	
Pulser Level - 600	o V
Data Link	
Comments:	485
"PEACH"	-10-
"HOT LEAD"	



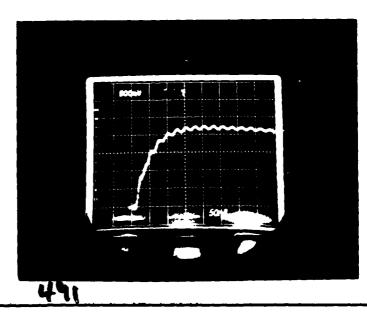
Date 5-31-85 Test Point ///- 44-1/10 Amplification dB Attenuation dB ne/dlv Horizontal **Vertical** Horizontal ns/div 2 Vertical ns/div 2 Configuration Pulser Level 600 V Data Link Comments: WABER



HOT TO COMMON WITH REFERENCE PULSE

SCORE DUD NOT TRIGGER

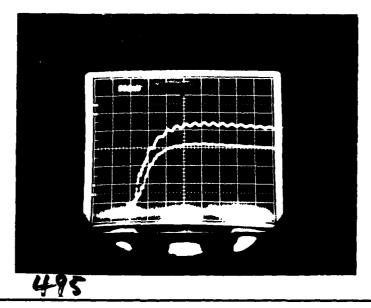
5-31-85 Date -AL-1/10-0 Test Point **Amplification** Attenuation Horizontal 50 ne/div 1 Vertical 51 mV/dlv 1 Horizontal ns/div 2 Vertical ns/dlv 2 Configuration +600V Pulser Level Data Link Comments: 491 - WABER-



COMMON TO GROUND WITH REFERENCE -

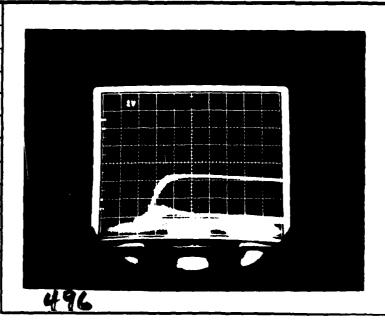
SCOPE-DID NOT TRIGGER

Date 5-31	-85
Test Point /// -AL	-1/10-6
Amplification	dB /
Attenuation	dB
Horizontal 5	O ne/div 1
Vertical 51(140)	m¥7dlv 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level + 60	30 V
Data Link	
Comments:	495
WABER	



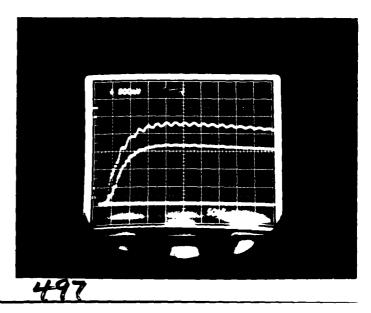
HOT TO COMMON TIED TO GND

5-31-85 Date Test Point / // Amplification Attenuation đB Horizontal ns/dlv 1 m¥/dlv 1 Vertical Horizontal ne/dlv 2 ns/dlv 2 Vertical Configuration Pulser Level 4500 V Data Link Comments: 496 WABER



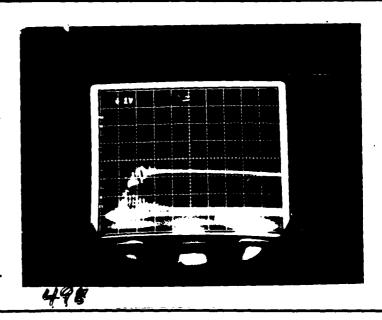
HOT TO COMMON TIED TO GAD

5-31-85 Test Point ///R-AL-1/10-B Amplification dB Attenuation Horizontal ns/div Vertical .5V(140V Horizontal 2 ns/div Vertical ns/div Configuration Pulser Level -600V Data Link Comments: 497 WABER

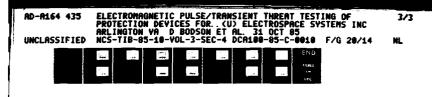


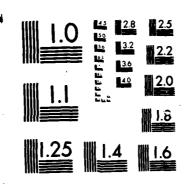
HOT TO COMMON TIED TO +

5-31-85 Date Test Point ///R -CL-1/10 - B **Amplification** Attenuation dB Horizontal 50 ne/dlv 1 Vertical 1V (1900V Horizontal ns/div 2 Vertical ns/dlv 2 Configuration Pulser Level -4500V Data Link 498 Comments: WASER



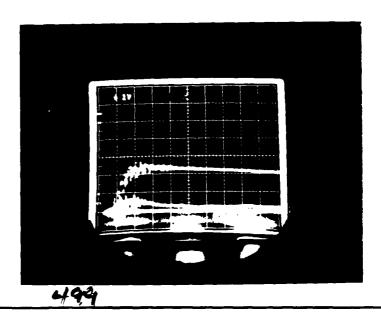
HOT TO COMMON TIED TO \$





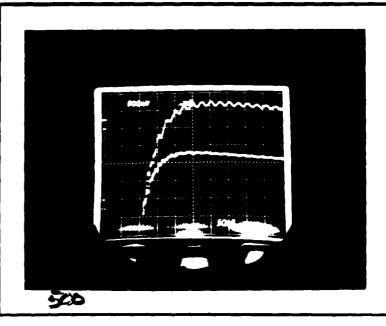
MICROCOPY RESOLUTION TEST CHART

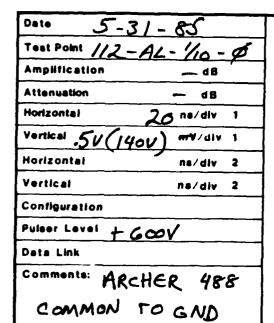
Date 5-31-85
Test Point ///R-CL-1/10-A Amplification Attenuation 20 dB 50 ne/div Horizontal Vertical // (1900V) mV/div Horizontal ns/div Vertical ns/div Configuration Pulser Level -4500V Data Link Comments: 499 WABER

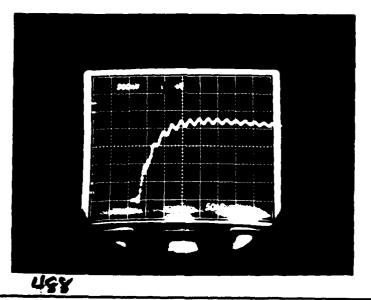


HOT TO COMMON MED TO BND.

Date 5-3	1-85
Test Point /// - A	L-1/10-A
Amplification	d B
Attenuation	dB
Horizontal	50ne/dlv 1
Vertical 5V 95	V) #V/dlv 1
Horizontal	ne/div 2
Vertical	ns/div 2
Configuration	
Pulser Level +	600V
Data Link	
Comments:	500



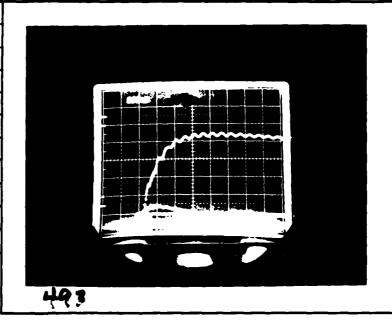




SCOPE DIN NOT TRIGGER ON TEST PLUSE

Date 5-:	31 -85
Test Point //2R-	AL-1/10-6
Amplification	dB
Attenuation	₫₿
Horizontal	20 ne/div 1
Vertical ,5V (14	foy) my div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	

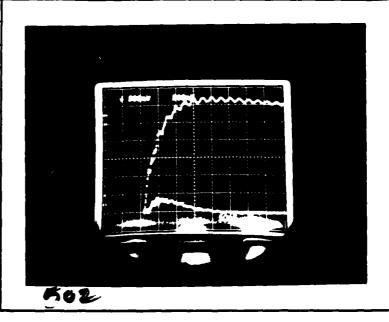
Date 5-31-	ਨ <u>5</u>	
Test Point //2-AL-		Ø
Amplification	dB	
Attenuation	d B	
Horizontal 50	ns/div	1
Vertical .5 (140V)	m\/div	1
Horizontai	ns/dlv	2
Vertical	ns/dlv	2
Configuration		
Pulser Level +600	V	
Data Link		
Comments:	493	



ARCHER "HOT TO COMMON"

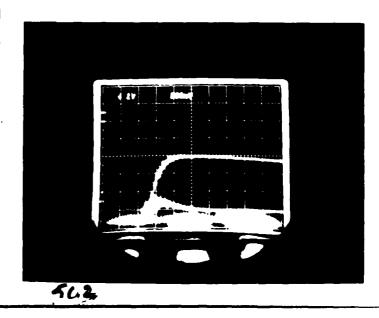
5-31-85 Date Test Point Amplification d B Attenuation ne/dlv Horizontal Vertical IV (1900V mW/dlv Horizontal ne/div Vertical ns/dlv 2 Configuration +4500 Pulser Level Data Link Comments: 494 ARCHER " HOT TO COMMON"

Date 5-3/-85
Test Point //2R-AL-1/10 - \$ Amplification Attenuation d B 50 ne/div Horizontal Vertical .5V (95V mV/dlv Horizontal ns/div Vertical ns/div Configuration Pulser Level -600Y Data Link Comments: 502 ARCHER

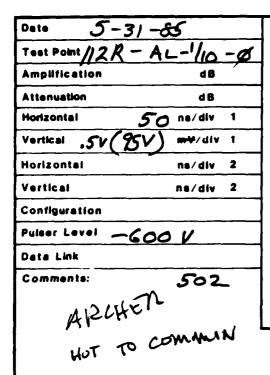


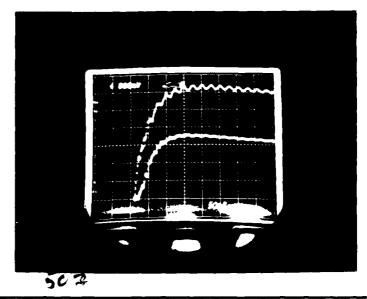
HOT TO COMMON

Date 5-3	1-85
Test Point //2/R	-CL-1/10-d
Amplification	dB /
Attenuation	20 dB
Horizontal	50 ne/div 1
Vertical LV(110	OV) mydiv 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level -	4500V
Data Link	
Comments:	503

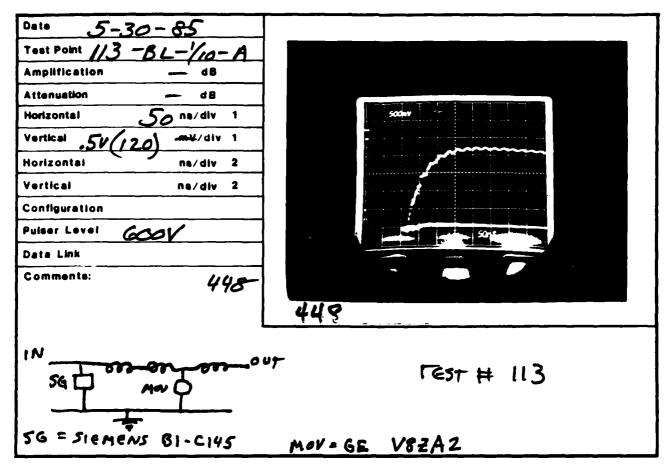


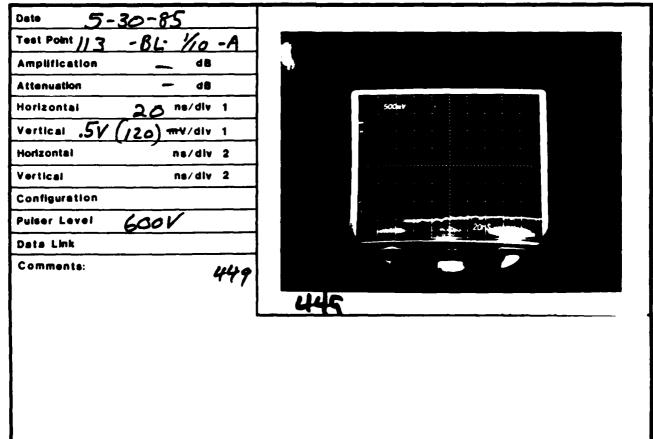
" HOT TO COMMON "

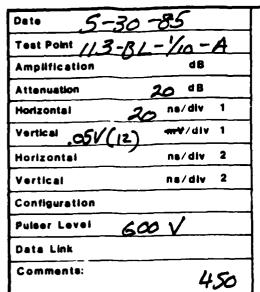


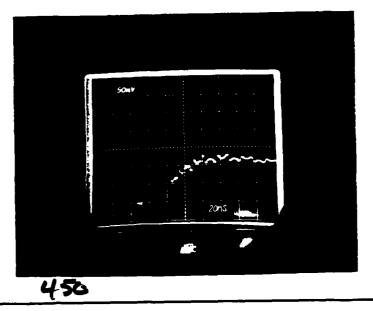


Date		
Test Point		
Amplification	48	
Attenuation	dB	
Horizontal	ne/dlv	1
Vertical	mV/div	1
Horizontal	ns/dlv	2
Vertical	ns/div	2
Configuration		
Pulser Level		
Data Link		
Comments:		

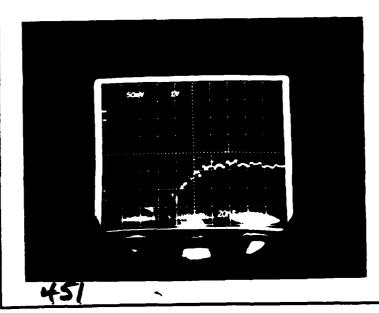








Date 5-3	0-65
Date 5-3,	-BL-110-A
Amplification	dB
Attenuation	20 dB
Horizontai	20 ne/dlv 1
Vertical .05V(12) =4/div 1
Horizontal	ne/div 2
Vertical	ne/div 2
Configuration	
Pulser Level	600V
Data Link	
Comments:	1161
	45/



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